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Progress Report
on the Establishment of a
Natural Resources Information System
for the
State of Texas

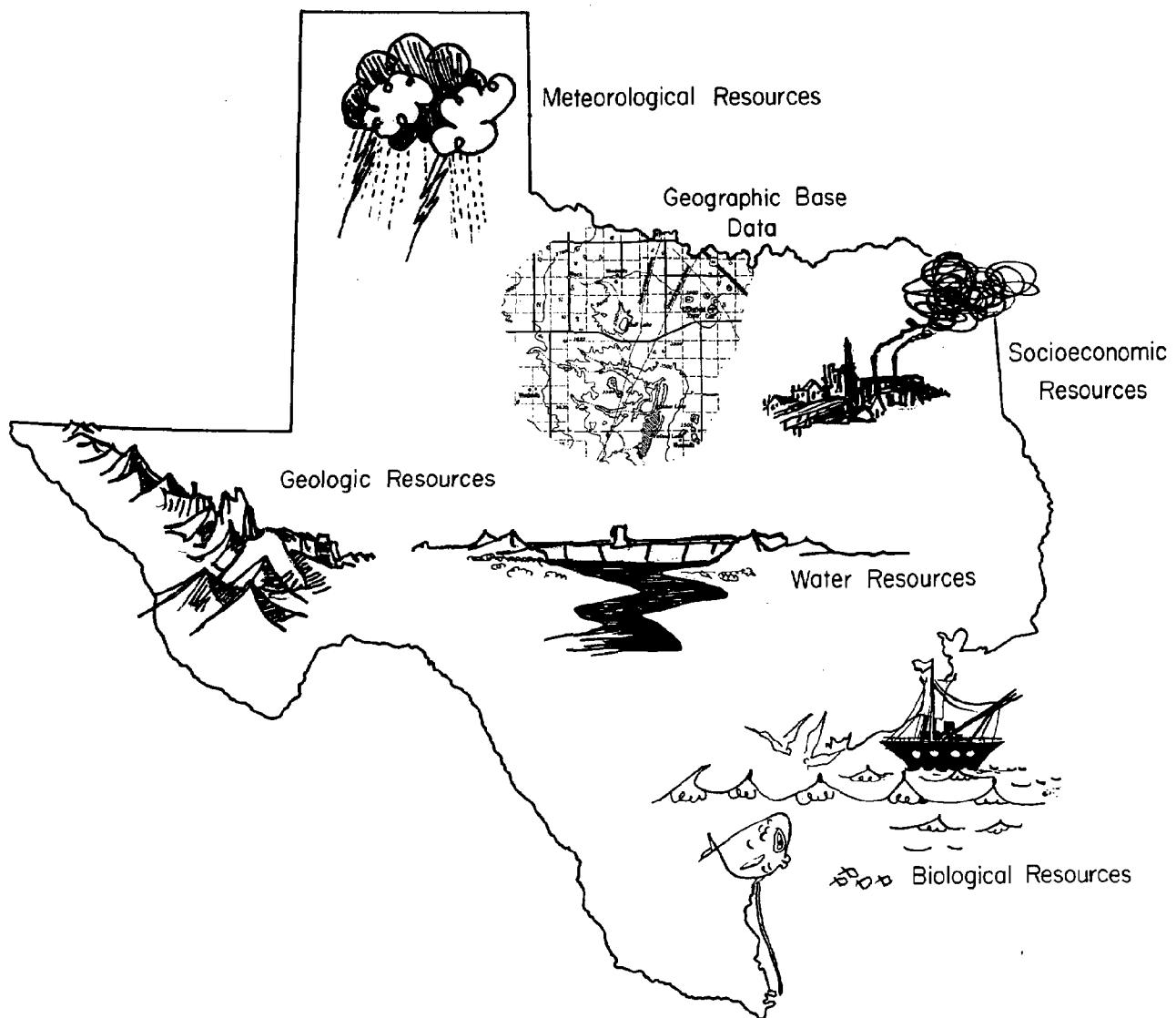
An identification and categorization of natural
resources information collected, stored, and used
by the State agencies

*Produced at the direction of the Interagency
Council on Natural Resources and the Environment*

HC
107
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T482
1973

February 1, 1973

THE SIX MAJOR CATEGORIES OF NATURAL RESOURCES DATA AND INFORMATION



**PROGRESS REPORT
ON THE ESTABLISHMENT
OF A
NATURAL RESOURCES INFORMATION SYSTEM
FOR
THE STATE OF TEXAS**

**IDENTIFICATION AND CATEGORIZATION
OF
NATURAL RESOURCES DATA AND INFORMATION**

**U. S. DEPARTMENT OF COMMERCE NOAA
COASTAL SERVICES CENTER
2234 SOUTH HOBSON AVENUE
CHARLESTON, SC 29405-2413**

Produced at the Direction of the
INTERAGENCY COUNCIL ON NATURAL RESOURCES AND THE ENVIRONMENT

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**WATER ORIENTED DATA PROGRAMS SECTION
INTERAGENCY COUNCIL ON NATURAL RESOURCES AND ENVIRONMENT**

P.O. BOX 13087
AUSTIN, TEXAS 78711

February 1, 1973

The Interagency Council on
Natural Resources and the
Environment
Austin, Texas

Gentlemen:

On July 24, 1972, the Council charged the Water Oriented Data Programs Section with implementing recommendations made by the Section concerning the establishment of a Natural Resources Information System for the State of Texas. Specifically, the Section was charged with first identifying and categorizing natural resources data and information collected, stored, and used by State agencies, and with reporting on progress in this endeavor to the Council by February 1, 1973.

Following the Council's July 24 meeting, the Natural Resources Information System Task Force was established to assist the Section in carrying out the Council's charge. The Task Force, which includes representatives from each of the Council member agencies, held its first meeting August 18, 1972. In all, the Task Force held eight working sessions while gathering and preparing material for its report to the Council.

The Section takes pleasure in presenting this report on a Natural Resources Information System for Texas to the Council. We urge that the Council give careful consideration to the recommendations contained herein, and we trust that the efforts of the Task Force will materially assist the Council in reaching its decision regarding this important matter.

Respectfully submitted,



C. R. Baskin
Chairman

ACKNOWLEDGMENTS

This report represents the combined efforts of many individuals who, because of the interest of their respective organizations in exploring ways to better manage the State's natural resources, were able to contribute generously of their time and expertise to its preparation. These individuals made their contributions largely as a result of their membership in the Natural Resources Information System Task Force and through participation in the eight working sessions held by the Task Force during formulation and preparation of the report.

All Task Force members contributed materially to the report. It is felt however, that special mention should be made of the report-drafting Sub-committee that not only provided much input for the regularly scheduled Task Force deliberations, but also labored so diligently in many of its own working meetings as well as on individual assignments. Sub-committee members were David L. Ferguson, Chairman, E. G. Wermund, Samuel V. Fox, Frank J. Call, and Lial F. Tischler. John B. Wells and Alexander J. Tuyahov from the Office of Information Services of the Office of the Governor met and worked with the Sub-committee. They, too, are deserving of special recognition for their contributions as advisory members of both the Sub-committee and the Task Force.

Additionally, special mention should be made of Charles Cooke and Ward C. Goessling from the Division of Planning Coordination of the Office of the Governor. These individuals, although also not officially members of the Task Force, gave unselfishly of their time to attend the Task Force's sessions. Their comments on the activities of the Task Force were most helpful.

Visitors, observers, and parties making special presentations to or for the Task Force included: Herb Grubb and Walter A. Wood, Office of Information Services, Office of the Governor; Jack Bowen, Jr., Senate Interim Committee on Environmental Affairs; Hubert A. Henry, Director of the Division of Automation, Texas Highway Department; and R. K. Gabrysich of the U.S. Geological Survey. The interest and assistance of these individuals is most appreciated by the Task Force.

A complete list of the entities and individuals participating in one or more of the Task Force meetings follows. The interest shown in the Task Force's endeavor is evidenced by the fact that several entities, in order to be represented at the regularly scheduled Task Force meetings, had to frequently designate an alternate representative because of scheduling conflicts involving the agency's regular Task Force member. In the following list, both designated representatives and alternates are shown.

| <u>ENTITY</u> | <u>REPRESENTATIVE(S)</u> |
|--|---|
| Bureau of Economic Geology, University of Texas at Austin | E. G. Wermund |
| General Land Office | John C. Foshee Wayne D. Oliver Dennis N. Russell Robert D. Clark |
| Office of the Governor | |
| Division of Planning Coordination | Charles Cooke Ward C. Goessling |
| Office of Information Services | John B. Wells Alexander J. Tuyahov |
| Railroad Commission of Texas | Murray C. Moffatt |

| <u>ENTITY</u> | <u>REPRESENTATIVE(S)</u> |
|---|---|
| Texas A&M University | W. L. Meier, Jr. |
| Texas Air Pollution Control Services | W. B. Willis J. M. Meyers Ray Nelson Don A. Craven |
| Texas Department of Agriculture | R. E. Patterson Noble C. Boswell |
| Texas Forest Service | John R. Wood Edwin H. Barron |
| Texas Highway Department | Samuel V. Fox |
| Texas Industrial Commission | Frank J. Call Samuel A. Martin |
| Texas Parks & Wildlife Department | Terrance R. Leary |
| Texas State Department of Health | Henry L. Dabney Orville Laird |
| Texas State Soil & Water Conservation Board | G. E. Kretzschmar John Millican |
| Texas Water Quality Board | Robert G. Fleming Clair A. Carden Warren C. Jackson Michael H. McKann |
| Texas Water Rights Commission | Robert M. Whitenton Jack R. Chitwood |
| Texas Water Development Board | C. R. Baskin Lial F. Tischler David L. Ferguson William C. Caskey, Jr. |

ACCEPTANCE AND APPROVAL OF REPORT

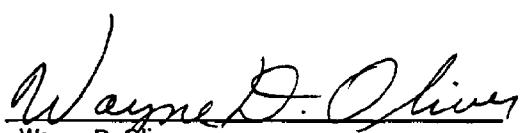
This report was formally accepted and approved by the Natural Resources Information System Task Force on January 12, 1973. Such action by entity representatives, either at that meeting or subsequent thereto, is evidenced herewith:



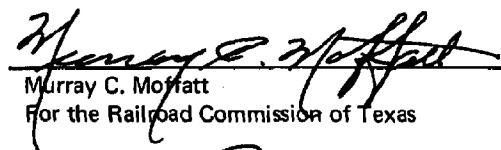
C. R. Baskin
For the Texas Water Development Board



E. G. Wermund
For the Bureau of Economic Geology,
University of Texas at Austin



Wayne D. Oliver
For the General Land Office



Murray C. Moffatt
For the Railroad Commission of Texas



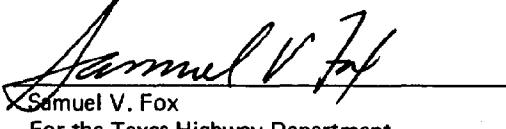
J.M. Myers
For the Texas Air Pollution Control Services



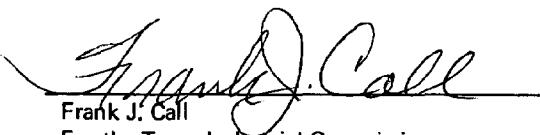
R. E. Patterson
For the Texas Department of Agriculture



Edwin H. Barron
For the Texas Forest Service



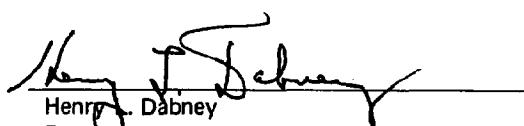
Samuel V. Fox
For the Texas Highway Department



Frank J. Call
For the Texas Industrial Commission



Terrance R. Leary
For the Texas Parks & Wildlife Department



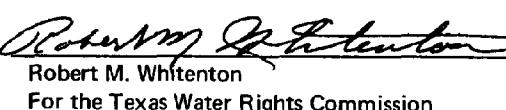
Henry T. Dabney
For the Texas State Department of Health



G. F. Kretzschmar
For the Texas State Soil & Water Conservation
Board



Robert G. Fleming
For the Texas Water Quality Board



Robert M. Whitenton
For the Texas Water Rights Commission

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I. HISTORY OF NATURAL RESOURCES INFORMATION SYSTEM ACTIVITIES

One of our State's greatest assets is its natural resources, and one of our great challenges for tomorrow is the proper planning, developing, managing, and conservation of these resources. Many agencies within the State are vitally concerned with our State's natural resources and their preservation. The need to consider the total effects of any particular action or project on the natural resources of the State is becoming increasingly more evident with time as exemplified by the public concern for the preservation of environmental quality. The resource manager, whether he is interested in regulatory and enforcement activities, managing a natural resource, or planning the future use of natural resources, needs to apply a multidisciplinary approach to his effort. This approach requires that a number of different types of natural resources and socio-economic data and information be readily available to the resource manager. Recent federal legislation requiring the filing of environmental impact statements on a wide variety of projects, and pending federal legislation concerning other areas of environmental protection, resource management, and land use planning further point out the need for an integrated approach. Several states including New Mexico, Arizona, and Wisconsin are well on the way to providing the necessary information systems to deal with these problems and have found many side benefits with the increased cooperation and coordination among their state resource agencies.

In June 1972, the Water Oriented Data Programs Section (WODPS) of the Interagency Council on Natural Resources and the Environment presented the *Report of the Water Oriented Data Programs Section to the Interagency Council on Natural Resources and the Environment on the Establishment of a Natural Resources Information System for the State of Texas*. The WODPS recommended that the State of Texas should pursue the development of a Natural Resources Information System (NRIS) to facilitate the fulfillment of the specific statutory responsibilities and administrative needs of the various agencies involved in planning, developing, operating, managing, conserving, and protecting the natural resources of the State. A major objective of the NRIS would be to provide maximum availability of natural resources data and information consistent with cost and efficiency.

By making known the types and availability of natural resources data and information, the potential for duplication of data collection among the various agencies would be reduced. An information exchange system of this type would permit each agency to have access to available natural resources information and data. The establishment of this system would also provide a means for improving coordination of data collection activities among the various participating agencies which would help assure that the State's money is spent in the most cost effective manner. A NRIS could also serve as an interface with Federal Natural Resource Agencies to facilitate the exchange of information between the State and federal agencies.

In their June report to the Interagency Council on Natural Resources and the Environment the WODPS made specific recommendations regarding the planning and establishment of a Natural Resources Information System. These specific recommendations included:

- That the Interagency Council on Natural Resources and the Environment utilize the WODPS to continue the development of the Texas Water Oriented Data Bank (TWODB) and that the TWODB serve as a pilot project for the NRIS, and
- That the WODPS concurrently accomplish certain initial activities toward developing a Natural Resources Information System for the State of Texas; these initial activities to include an identification and categorization of the natural resources data and information presently being collected, stored and used by State agencies, preparatory to a complete inventory of the available natural resources data and the conceptual design of such an information system.

At meetings held in June and July of 1972, the Interagency Council on Natural Resources and the Environment discussed the WODPS Report and its recommendations in detail and charged the WODPS with the following tasks:

- To proceed without interruption on the implementation of the TWODB and, concurrently,
- To establish an NRIS task force under the direction of the WODPS which would include representatives of all member agencies of the Interagency Council on Natural Resources and the Environment,

- To undertake direction of this task force and to proceed with the preliminary categorization and identification activities,
- To submit a report to the Interagency Council on Natural Resources and the Environment by February 1, 1973, on these categorization and identification activities with recommendations for approval of a plan and manpower estimate for accomplishing the data inventory concurrent with conceptual design of the system.

The first NRIS task force meeting was held on August 18, 1972, with representatives of fourteen State agencies and two Universities present. Subsequent meetings followed as the task force set out to categorize and identify the natural resources data collected, stored or used by State agencies. By the end of calendar year 1972, seven task force meetings had been held.

II. NATURAL RESOURCES INFORMATION SYSTEM DATA AND INFORMATION CATEGORIES AND SUBCATEGORIES

The first effort of the task force was to "define" natural resources by developing a set of categories and subcategories which would adequately "contain" the data to be later identified. These categories and subcategories would be subject to revision as the identification activity proceeded. From the outset, it was decided that the intent of the identification activity was to identify all data and information holdings which might even remotely be considered natural resources. It was important to avoid including information already part of an existing State Information System, such as the Criminal Justice Information System or the Health Information System; with the exception of the TWODB.

The following categories and subcategories have evolved from the identification activity and represent a "definition" of the data and information which might ultimately be included in the Texas Natural Resources Information System:

- I. Geographic Base Data
- II. Meteorological Resources
 - A. Climatological
 - B. Air Quality
 - C. Man's Activities
- III. Biological Resources
 - A. Animal
 - B. Plant
 - C. Micro-Organisms
 - D. Man's Activities
- IV. Water Resources
 - A. Surface
 - B. Subsurface
 - C. Man's Activities
- V. Geologic Resources
 - A. Surface
 - B. Subsurface
 - C. Man's Activities
- VI. Socio-Economic Resources
 - A. Social
 - B. Economic
 - C. Commerce
 - D. Government
 - E. Archaeologic

Most categories appear self-explanatory excepting Geographic Base Data and Man's Activities. Geographic Base Data includes landmark data and man's subdivisions which serve as a supportive category to provide a common denominator to locate natural resources. "Man's Activities" include data and information associated with the interaction of man and each specific category. The socio-economic data are not purely "natural" but describe the interrelationship between man, nature, and man-made conditions.

III. IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

The preliminary identification activity was accomplished by the use of a questionnaire completed by each NRIS task force member. The questionnaire shown on page 4 was designed not only to provide a uniform method for data and information identification but also to provide information concerning the form, coverage, frequency of collection, and period of record for data collection activities. These completed questionnaires from each NRIS task force member agency have been synthesized and aggregated into tabular form in this section of the report. The following abbreviations have been used.

| <u>ABBREVIATION</u> | <u>AGENCY'S NAME</u> |
|---------------------|--|
| TWRC | Texas Water Rights Commission |
| TWQB | Texas Water Quality Board |
| TWDB | Texas Water Development Board |
| THD | Texas Highway Department |
| TSDH | Texas State Department of Health |
| TRRC | Texas Railroad Commission |
| TPW | Texas Parks and Wildlife Department |
| TSWC | Texas Soil and Water Conservation Board |
| UTBEG | University of Texas Bureau of Economic Geology |
| GLO | General Land Office |
| TFS | Texas Forest Service |
| TIC | Texas Industrial Commission |
| TDA | Texas Department of Agriculture |
| ACB | Texas Air Control Board |

Define C = Collect - Agency participation in collecting data and information. (This is indicated where agency does its own collecting, contracts for, or cooperatively works with one or more entities in actively securing data and information.)

U = Used - Agency use of particular kind of data regularly or periodically.

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

QUESTIONNAIRE

| AGENCY NAME | | | | | |
|------------------------------|--|--|--|--|--|
| | | | | | |
| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | | | | |
| | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY FORM OF DATA STORAGE ④ FREQUENCY OF RECORD COLLECTION ⑤ PERIOD FROM TO ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE | | | | |
| | | | | | |

Texas Agencies Natural Resources Data and Information

| DATA CLASSIFICATION | | AGENCY | | | | | | | | | | | | | |
|---------------------------|-----------------------------|--------|------|------|-----|------|-----|-----|------|-------|-----|-----|-----|-----|-----|
| | | TWRC | TWOB | TWDB | THD | TSDH | TRC | TPW | TSNC | UTBEG | GLO | TFS | TIC | TDA | ACB |
| I. | GEOGRAPHIC BASE DATA | | | | | | | | | | | | | | |
| Aerial Photos | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Topographic Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Highway Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Ground Survey Monuments | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Base Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Ownership Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Right of Way Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| II. | METEOROLOGICAL | | | | | | | | | | | | | | |
| A. Climatological | | | | | | | | | | | | | | | |
| Precipitation | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Temperature | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Evaporation | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Humidity | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Wind Movement | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Storm Date | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Solar Radiation | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Climatic Index | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| General Climatology | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| B. Air Quality | | | | | | | | | | | | | | | |
| Air Quality Monitoring | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| C. Man's Activities | | | | | | | | | | | | | | | |
| Precipitation Enhancement | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Noise | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Emissions Inventory | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Emissions Permits | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Emissions Surveillance | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| III. | BIOLOGICAL | | | | | | | | | | | | | | |
| A. | | | | | | | | | | | | | | | |
| 1. Aquatic | | | | | | | | | | | | | | | |
| Bay & Estuary Life | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Fish Stocking | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Species Inventory | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Fish Life Histories | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Fishery Surveys | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Fish Habitat Surveys | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| 2. Terrestrial | | | | | | | | | | | | | | | |
| Livestock & Poultry | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Population Inventories | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Production Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Weight & Age Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Mortality Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Food Habits | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |
| Banding & Tagging | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | | |

Texas Agencies Natural Resources Data and Information—Continued

| DATA CLASSIFICATION | AGENCY | | | | | | | | | | | | ACB | |
|---------------------------------|--------|------|------|-----|------|------|-----|------|-------|-----|-----|-----|-----|--|
| | TWRC | TWQB | TWDB | THD | TSDH | TRRC | TPW | TSWC | UTBEG | GLO | TFS | TIC | TDA | |
| B. Plant | | | | | | | | | | | | | | |
| Forest Resource Survey | | | | | | | | | | | | | | |
| Vegetative Studies | | | | | | | | | | | | | | |
| Forest Pest Surveys | | | | | | | | | | | | | | |
| Champion Trees | | | | | | | | | | | | | | |
| Bay & Estuary Life | | | | | | | | | | | | | | |
| Vegetative Regions | | | | | | | | | | | | | | |
| Crop Surveys | | | | | | | | | | | | | | |
| Rare Plant Life | | | | | | | | | | | | | | |
| Native Plant Life | | | | | | | | | | | | | | |
| Wildfire Occurrence | | | | | | | | | | | | | | |
| Root Depths | | | | | | | | | | | | | | |
| Planting-Harvest Dates | | | | | | | | | | | | | | |
| Forest Nursery Production | | | | | | | | | | | | | | |
| C. Micro-Organism | | | | | | | | | | | | | | |
| Bay & Estuary Life | | | | | | | | | | | | | | |
| Vector Control Status | | | | | | | | | | | | | | |
| Bacteriology Studies | | | | | | | | | | | | | | |
| D. Man's Activities | | | | | | | | | | | | | | |
| Agriculture Production | | | | | | | | | | | | | | |
| Agriculture Pricing | | | | | | | | | | | | | | |
| Public Hunts | | | | | | | | | | | | | | |
| Shooting Preserves | | | | | | | | | | | | | | |
| Prescribed Burning | | | | | | | | | | | | | | |
| Wood Using Industries | | | | | | | | | | | | | | |
| Floral & Nursery Directory | | | | | | | | | | | | | | |
| Seed Law Regulations | | | | | | | | | | | | | | |
| Seed Testing & Certification | | | | | | | | | | | | | | |
| Agriculture Cooperatives | | | | | | | | | | | | | | |
| Agricultural Producers | | | | | | | | | | | | | | |
| Irrigation Requirements | | | | | | | | | | | | | | |
| Fish Landings | | | | | | | | | | | | | | |
| Hunter Harvest Data | | | | | | | | | | | | | | |
| V. WATER | | | | | | | | | | | | | | |
| A. Surface | | | | | | | | | | | | | | |
| Stream Discharge | | | | | | | | | | | | | | |
| Surface Runoff | | | | | | | | | | | | | | |
| High Water Data | | | | | | | | | | | | | | |
| Channel Characteristics | | | | | | | | | | | | | | |
| Stream Quality | | | | | | | | | | | | | | |
| Sediment | | | | | | | | | | | | | | |
| Tide Data | | | | | | | | | | | | | | |
| Bay & Estuarine Coastal Quality | | | | | | | | | | | | | | |
| B. Sub-Surface | | | | | | | | | | | | | | |
| Water Levels | | | | | | | | | | | | | | |
| Saturated Thickness Maps | | | | | | | | | | | | | | |
| Contamination Studies | | | | | | | | | | | | | | |
| Well Quality Analysis | | | | | | | | | | | | | | |
| Natural Recharge | | | | | | | | | | | | | | |

Texas Agencies Natural Resources Data and Information—Continued

| DATA CLASSIFICATION | | AGENCY | | | | | | | | | | | | | |
|---------------------|-------------------------------|--------|------|------|-----|------|------|-----|------|-------|-----|-----|-----|-----|-----|
| | | TWRC | TWQB | TWDB | THD | TSDH | TRRC | TPW | TSWC | UTBEG | GLO | TFS | TIC | TDA | ACB |
| C. | Man's Activities | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Return Flows | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Diversions | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Waste Treat. Fac. Inven. | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Well Pumpage | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Impounding Structures | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Water Treat. Fac. Inven. | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Oil Field Brine | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Facility Plans & Specs. | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Water Rights & Claims | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Water Use Reports | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Pumping Schedules | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Highway Hydraulic Facilities | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Subsurface Injection | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| | Water Well Identifications | CU | CU | CU | CU | CU | CU | CU | CU | U | CU | CU | CU | CU | |
| V. | GEOLOGIC | | | | | | | | | | | | | | |
| A. | Surface Mapping | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Aerial Photos with Geology | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Soil Characteristics | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Soil Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Prospect Permits | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Published Geologic Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Mineral Resource Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Mineral Lab Analysis | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Borrow Pit Material | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| B. | Sub-Surface Mechanical Logs | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Drillers Logs | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Mapping | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Core Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Test File Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Published Geologic Data | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Stratigraphic Sections | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Well Samples | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Well Record Books | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Thin Sections | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Oil & Gas Field Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | County Oil & Gas Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Offshore Oil & Gas Maps | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| C. | Man's Activities | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Sanitary Land Fills | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Solid Waste Disposal | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Highway Research Activities | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Highway Rest Areas | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Highway, Road, Street Mileage | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | Ferry Operations | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |
| | State Oil & Gas Leases | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | CU | |

Texas Agencies Natural Resources Data and Information—Continued

| DATA CLASSIFICATION | | AGENCY | | | | | | | | | | | | | |
|-------------------------------|--|--------|------|------|-----|------|------|-----|------|-------|-----|-----|-----|-----|-----|
| | | TWRC | TWQB | TWDB | THD | TSDH | TRRC | TPW | TSWC | UTBEG | GLO | TFS | TIC | TDA | ACB |
| Mineral Leases | | | | | | | | | | | CU | | | | |
| Mineral Production | | | | | | | | | | | CC | | | | |
| Oil & Gas Lease Rec. | | | | | | | | | | | C | | | | |
| Oil & Gas Well Files | | | | | | | | | | | CCC | | | | |
| Oil & Gas Production | | | | | | | | | | | CC | | | | |
| Oil Spills | | | | | | | | | | | CC | | | | |
| Well Spacing Orders | | | | | | | | | | | CC | | | | |
| Oil & Gas Plants & Refineries | | | | | | | | | | | CC | | | | |
| VI. SOCIO-ECONOMIC | | | | | | | | | | | U | | | | |
| A. Social | | | | | | | | | | | U | | | | |
| Demographic | | | | | | | | | | | CU | | | | |
| Education | | | | | | | | | | | U | | | | |
| Recreation | | | | | | | | | | | CC | | | | |
| B. Economic | | | | | | | | | | | CU | | | | |
| Income | | | | | | | | | | | CC | | | | |
| Employment | | | | | | | | | | | CU | | | | |
| C. Commerce | | | | | | | | | | | CU | | | | |
| Manufacturing | | | | | | | | | | | U | | | | |
| Transportation | | | | | | | | | | | U | | | | |
| Finance | | | | | | | | | | | U | | | | |
| Indicators | | | | | | | | | | | CU | | | | |
| D. Government | | | | | | | | | | | CU | | | | |
| Planning | | | | | | | | | | | CU | | | | |
| Municipal Services | | | | | | | | | | | CU | | | | |
| Legal | | | | | | | | | | | CU | | | | |
| E. Archaeologic | | | | | | | | | | | CU | | | | |

IV. EVALUATION OF THE IDENTIFICATION AND CATEGORIZATION ACTIVITIES

The results of this preliminary identification and categorization of natural resources data and information yielded valuable information concerning various aspects of natural resources data and information collected, used, or stored by the various State agencies. This endeavor is an invaluable first step toward realization of a Texas Natural Resources Information System. Various results and evaluations are stated in the following list:

1. The main categories of data and information have been identified within each participating agency. This provides a format to further query agencies within the State for either additional or more detailed natural resources information.
2. A large category of Socio-Economic Resources has been identified and its interaction with a NRIS is recognized. However, it is likely that this category should evolve into a separate information system designed for accessibility and compatibility with other Texas Information Systems.
3. Four categories of near equal rank have been identified: Meteorology, Water, Biology, and Geology. This suggests that each category is an important subsystem of data which requires further identification, categorization, inventory, and maintenance. It should be noted that each category has different "levels" of subcategories which contain various degrees of detail. In addition there is a supportive category called Geographic Base Data which provides the common denominator to locate natural resources.
4. There appear to be some duplications of activities among the participating Texas State Agencies in this preliminary categorization. It is anticipated however, that a detailed inventory would show no actual duplication. Different agencies do collect like data but, in reality, they collect like data for different goals thus leading to different forms of similar data. By knowing who collects what data, agency administrators could optimize this collection process.
5. Three broad data storage formats have been identified: machine processable, textual, and mapped. The machine processable data includes data which is on cards, tape, etc.; textual data are published and unpublished reports; mapped data includes maps or aerial data. The textual and mapped data will rarely be formatted into machine processable data.
6. The geological category is possibly the most complicated and elusive. To create a Geological Data Base consisting *entirely* of machine processable data would be extremely costly and would require an extended period of time because this data is primarily textual and mapped.
7. These activities have allowed for no distinction concerning the reliability of information or data. A problem exists in that some data are direct measurements whereas other data are interpretations. Further study will be required to develop reliability codes.
8. Other natural resources data exist in entities outside the Interagency Council on Natural Resources and the Environment including various University systems, local, regional, State, and federal agencies.
9. This preliminary identification indicates that the system will be large and complex. These present activities are only a first step and many additional refinements are needed. It will not be possible to develop a working system with part time help or committee action alone.
10. Further NRIS activities must look at the needs of the various participating agencies. The next phase of NRIS development must, as outlined in the recommendations to follow, be substantially more intensive than this first phase and must include a geographic location system.
11. A large portion of the identified natural resources data and information will be contained in the TWODB. On-going TWODB activities can easily be integrated into proposed NRIS activities by expanding the level of staff support and coordinating NRIS development with the WODPS.

V. RECOMMENDATIONS

After careful consideration of the presently conceived NRIS objectives, expected benefits, and evaluation of the preliminary identification, the NRIS task force makes the following recommendations:

1. That the Interagency Council pursue the establishment of a NRIS for the State of Texas in a phased approach with appropriate checkpoints.
2. That the TWODB presently being implemented by the WODPS with primary staff support from the Texas Water Development Board serve as a pilot project and nucleus for the NRIS.
3. That the NRIS task force under the direction of the WODPS continue to function and direct the next phase of development.
4. That the next phase of development include a detailed *inventory of the machine processable* natural resources data and information presently available from the participating agencies (over and above that inventoried by the WODPS) concurrent with the *conceptual design* of the NRIS. Experience with the TWODB indicates that an inventory of machine processable data is a logical first step toward a complete inventory. The results of this detailed inventory would be a file description report containing detailed information on each machine processable file of natural resources data and information. The detailed inventory of the mapped and textual data should follow, consistent with the conceptual design and appropriate checkpoints. The conceptual design activity should include a review of TWODB concepts and continued evaluation of NRIS objectives.
5. That the proposed NRIS be designed in an "open-ended" manner able to include various new data subcategories as they arise and that efforts should be made to strive for compatibility between this system and existing and proposed State and federal systems. Using the TWODB as a nucleus for the NRIS should insure this flexibility and compatibility.
6. That the Interagency Council urge its member agencies to provide staff capabilities to support the implementation of the TWODB and the continued development of the NRIS thru the next approved phase. Although it is still difficult to precisely define NRIS manpower requirements, the following estimates can be made based on experience with TWODB activities. Assuming legislative approval of two previously requested TWDB staff positions for TWODB implementation, it is estimated that with *two additional analyst positions*, the necessary full-time staff capability could be provided for the detailed inventory phase and conceptual design. In addition, approximately one to two man-months of support would be required from each participating agency during the inventory of machine processable data and information. With this level of support, it is estimated that this first phase inventory could be completed in approximately nine to twelve months, concurrent with TWODB implementation and support of the NRIS task force conceptual design activity.
7. That the Socio-Economic category become a separate information system as soon as possible. That the Interagency Council on Natural Resources and the Environment recommend that the design of this Socio-Economic system be undertaken by the appropriate agencies or appropriate interagency council. Pending such activities it is recommended that presently identified Socio-Economic data be included in the NRIS on a low priority basis. To insure compatibility between these systems, the Interagency Council on Natural Resources and the Environment should maintain representation in the design of the Socio-Economic system.

APPENDIX A

Included in this Appendix are the original NRIS questionnaires completed by each participating Agency. These questionnaires were a first step in the preliminary identification of natural resources data and information. Agency representatives were to identify data and information which was collected, used or stored by their respective agencies with no attempt to identify data "needs". These questionnaires do not present a complete and exact picture of each Agency's data holdings and are not intended to describe the accessibility of these data holdings. These questionnaires were used as the basis for developing the synthesized and aggregated tabulations of natural resources data and information shown in Section III of this report.

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION
QUESTIONNAIRE

Page 1 of 5

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
|------------------------------|--------------------------|--|--|-------------------------------------|-------------------------------|---|
| | | | ④ FORM OF DATA OF STORAGE | ⑤ FREQUENCY OF RECORD COLLECTION | ⑥ PERIOD OF RECORD FROM TO | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| I. Meteorological Resources | | | | | | |
| A. Climatology | | | | | | |
| 1. Precipitation | U | General hydrology studies, irrigation studies (USWB) | | | | |
| 2. Evaporation | CU | General hydrology studies, irrigation studies, artificially forced | | | | |
| 3. Temperature | U - | Indexes used to compute evaporation. (USWB) | PT | M | 1903 | Each one-degree quadrangle of longitude and latitude of the State of Texas. |
| 4. Solar Radiation | U - | Reservoir operations for protection of life and property (USWB) | | | | |
| 5. Wind Movement | U | | | | | |
| 6. Storms | | | | | | |
| B. Air Quality | | | | | | |
| C. Man's Activities | | | | | | |
| 1. Precipitation Enhancement | U | General hydrology studies, irrigation studies, reservoir operations (not supplied) | | | | |

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QUESTIONNAIRE

TWRC

| DATA CATEGORY/SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
|----------------------------|---|--|---|--------------------------|--|
| | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| II. Biological Resources | A. Animal B. Plant C. Micro-Organism D. Man's Activities | | | | |
| | 1. Crops | U | Irrigation studies (USDA) | | |
| | 2. Root Depth | U | Irrigation studies (USDA) | | |
| | 3. Planting and Harvesting Dates | U | Irrigation studies (USDA) | | |
| | 4. Irrigation Requirements | CU | Irrigation studies, reservoir operations, legal and administrative requirements | A | 1941 |
| | | | | | Determined as required for adjudication |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
|--|------------------------|---|---|---------------------------|--------------------|
| | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF COLLECTION | ⑥ PERIOD OF RECORD |
| III. Water Resources | A. Surface | U | General hydrology studies, reservoir operations (USGS) | | |
| | 1. Quantity | U | Administrative requirements (USGS) | | |
| | 2. Quality | U | Administrative requirements (USGS) | | |
| | 3. Temperature | U | Administrative requirements (USGS) | | |
| | 4. Sediment Transport | U - | General hydrology studies, reservoir operations (USGS) | | |
| | 5. Sediment Deposition | U - | | | |
| | B. Ground | U | General hydrology studies, administrative and legal requirements (TWDB) | | |
| | 1. Quantity | U | | | |
| | 2. Quality | U | | | |
| | 3. Natural Recharges | U | | | |
| C. Man's Activities | | | | | |
| 1. Reservoir Content | U | General hydrology studies, operational, legal, and administrative requirements (USGS) | T | P | 1913 |
| 2. Water Rights and Claims | CU | General hydrology studies, operational, legal, and administrative requirements (USGS) | T | A | 1913 |
| 3. Water Use Reports | CU | General hydrology studies, operational, legal, and administrative requirements (USGS) | T | A | 1913 |
| 4. Water Districts and River Authorities | CU | Legal and Administrative requirements | AT | O | 1918 |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

QUESTIONNAIRE

| ① DATA CATEGORY / SUB-CATEGORY | ② DATA CLASSIFICATION | ③ BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ④ FREQUENCY OF DATA COLLECTION | | | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION FROM ITO | ⑦ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY |
|-----------------------------------|--------------------------|--|--------------------------------------|------------|----------|-----------------------|--|--|
| | | | OF COLLECTION | OF STORAGE | FROM ITO | | | |
| IV. Geologic Resources | A. Surface | General hydrology studies and Administrative requirements (USGS) | U | | | | | |
| | 1. Mapping | General hydrology studies and Administrative requirements (USGS) | U | | | | | |
| | 2. Soil Characteristics | General hydrology studies and storm runoff studies, and administrative requirements (USDA, TWDB) | U | | | | | |
| | B. Subsurface | General hydrology studies and administrative requirements (USGS, TWDB) | U | | | | | |
| | 1. Mapping | General hydrology studies and administrative requirements (USGS, TWDB) | U | | | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
|-----------------------------|-----------------------|---|---|-------------------------------|----------------------------|
| | | | ④ FORM OF DATA COLLECTION | ⑤ FREQUENCY OF RECORD STORAGE | ⑥ PERIOD OF RECORD FROM TO |
| V. Socio-Economic Resources | | | | | |
| | | | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ FORM OF DATA STORAGE | ④ FREQUENCY OF DATA COLLECTION | ⑤ PERIOD OF RECORD | ⑥ FROM TO | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE | AGENCY NAME | TWQB |
|---|-----------------------|---|------------------------|--------------------------------|--------------------|-----------|--|-------------|------|
| WATER RESOURCES | | | | | | | | | |
| Surface: Stream Quality Monitoring | CU | Sampling for turbidity DO, PH, dissolved solids, BOD, chlorides & sulphates | AT | M/Q | 9/67 | | routine sampling for quality Approx. # of stations 391 | | |
| Bay, Estuarine & Coastal Water Quality monitoring | CU | Sampling for turbidity DO, PH, dissolved solids, BOD, chlorides & sulphates | AT | Q | 1998 | | routine sampling for quality Approx. # of Stations 391 | | |
| Man's Activities: Self-reported data (return flow inventory) | CU | Effluent volume & quality | AT | CDMM | 6/10 | | data reported by holder of waste control order # reporting Industrial - 613 (80% of industries required to report Domestic - 867 (77% of industries required to report) | | |
| Return flow inventory by TWQB District Office's | CU | Effluent quality & quantity | AT | Q | 1997 | | Both municipal & industrial discharges Approx. # of dischargers Industrial 764 Domestic 1129 | | |
| Area & Basin-wide waste treatment planning | C | Planning data for regional sewage treatment facilities | A/B | 0 | 1972 | | Waste use inventory and projections STP facility plans, etc. Approx. # of plans 61 | | |
| Subsurface injection wells | CU | Volume, pressure & injections rates | A | N/S * | 1961 | | All industrial waste injection wells exclusive of oil & gas associated salt water injection # of injection wells 107 | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

QUESTIONNAIRE

| | | AGENCY NAME | TWQB |
|--|--------------------------|---|--|
| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY ④ FORM ⑤ FREQUENCY ⑥ PERIOD ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE OF RECORD FROM TO OF DATA COLLECTION STORAGE |
| | | | |
| GEOLOGIC RESOURCES Main's Activities: Industrial & Agricultural solid waste survey | CU | Inventory of solid waste including methods of collection, storage, & disposal, and site locations | A 0 1971 Sampling survey to be expanded to state-wide coverage # of industries surveyed 1,835 |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| DATA CATEGORY/SUB-CATEGORY | | ② DATA CLASSIFICATION | ③ BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ④ FORM OF DATA OF COLLECTION | ⑤ FREQUENCY OF RECORD | ⑥ PERIOD OF RECORD | ⑦ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | AGENCY NAME | TWDB |
|----------------------------|--------------------------|--------------------------|--|---------------------------------|--------------------------|-----------------------|--|-------------|------|
| | | | | STORAGE | FROM | TO | DESCRIPTION OF DATA COLLECTION COVERAGE | | |
| I. | Meteorological Resources | U | Obtained from USWB | | | | 60% of data before 1947 not available! Daily Data usually 90+ % complete but not continuous enough for general computer operations due to occassionally missing DAYS!!! | | |
| A. | Climatological | | | | | | | | |
| Precipitation | | U | Used for general Hydrology studies weather modification, Irrig. studies | P,T | D | 1901 | 1971 STATEWIDE Network 1200 STA-500 current | | |
| MAX. Temperature | | U | " " | P,T | D | 1901 | 1971 STATEWIDE Network 600 STA-300 current | | |
| MIN. Temperature | | U | " " | P,T | D | 1901 | 1971 STATEWIDE Network 600 STA-3000 current | | |
| Evap. | | U | " " | P,T | D | 1947 | 1971 60 STA @ Reservoir sites 25 current | | |
| Windmovement | | U | " " | P,T | D | 1947 | 1971 60 STA @ Reservoir sites 25 current | | |
| Precipitation | | U | " " | P,T | M | 1901 | 1971 STATEWIDE Network - 1200 STA. - 500 current Most stations have Gaps in data but can be filled in. | | |
| Climatic-INDEX | | U | Obtained from TWRC | T | Computed monthly | 1903 | 1970 Data is computed for each 1° quadrangle of the State. | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| | | AGENCY NAME THDS | |
|--|--|---|---|
| | | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | |
| | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF RECORD OF COLLECTION |
| | | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| DATA CATEGORY /SUB-CATEGORY | | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | |
| II. Biological Resources | | CU Ecological Studies, Inflow studies U. S. G. S., TRW | |
| A. Animal Life | | ACT | MP |
| Bay & Estuary Animal Shrimp Catch Data | | AT | MP |
| B. Plant | | ACT | MP |
| Bay & Estuary Plant Life | | ACT | MP |
| C. Micro-Organisms | | ACT | MP |
| Bay & Estuary Life | | 60 | 60 |
| | | All Bay & Estuary Systems, at approx. 800 Data collection points; with over 800 species of plant & animal life sampled. | |

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QUESTIONNAIRE

AGENCY NAME: TNDB

| DATA CATEGORY /SUB-CATEGORY | ② DATA CLASSIFICATION | ③ BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ④ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
|-----------------------------|--------------------------|--|--|-----------------------------|------------|--|
| | | | FORM ⑤ OF DATA OF STORAGE | FREQUENCY ⑥ OF RECORD | FROM TO | DESCRIPTION OF DATA COLLECTION COVERAGE |
| III. Water Resources | | | | | | |
| A. Surface Water | | | | | | |
| 1. Quantity | | | | | | |
| Streamflow Discharge | CU | General hydrology, reservoir operations, U.S.G.S. | APT | AOD | 01 | Statewide - all 23 river basins |
| Tide Data | CU | Inflow studies, salinity studies | AT | DOH | 61 | All bays except Galveston Bay |
| Surface Runoff | C | Quantity of runoff from grassland restoration and mesquite control | A,B | BI-M | 69 | Measure West Rocky Creek west of San Angelo. |
| Surface Water Runoff | CU | Monthly runoff volumes for various stages of land development | ABC/P | P | 41 | Statewide Network |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | | AGENCY NAME THDB |
|------------------------------|-----------------------|---|---|----------------------------------|------------------|---|---|
| | | | FORM OF DATA STORAGE | ④ FREQUENCY OF RECORD COLLECTION | ⑤ PERIOD FROM TO | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE | |
| III. Water Resources | | | | | | | |
| A. Surface Water | | | | | | | |
| 2. Quality Streamflow | CU | General Hydrology, Administrative, operations studies, USGS | AP | AO | 38 | 69 | Statewide network |
| Bay & Estuary | CU | Ecological studies, inflow studies, TRW, USGS | AT | OP | 70 | | All bays except Galveston Bay |
| Sediment | CU | Transport and load studies | APTCB | D | 24 | | Statewide network of 59 stations, 39 still active |
| Salinity measurements | C | Drainage and tide measurement, quality samples | AB | M | 70 | | Measure two drainage ditches and three tide points near port of Brownsville |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

AGENCY NAME TWDB

| DATA CATEGORY/GIS-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
|------------------------------------|-----------------------|---|---|---------------------|------------------|---|
| | | | FORM OF DATA COLLECTION | FREQUENCY OF RECORD | PERIOD OF RECORD | DESCRIPTION OF DATA COLLECTION COVERAGE |
| III. Water Resources | | | | | | |
| B. Sub-Surface Water | | | | | | |
| 1. Quantity | CU | Availability projections | APT | CMAP | 00 | 6700 selected wells located in 231 counties; 1746 Aquifer test |
| Water Levels | | | ABP | PO | | Statewide coverage |
| Saturated thickness maps | | | ABP | P | 62 | Approx. 1000 studies made-usually cover small areas |
| Ground water contamination studies | CU | | | | | |
| Water Well Data System | CU | All pertinent data for selected water wells | ACT | CPO | 00 | Current hard file contains about 5000 wells. When completed the file will cover about 75,000 wells statewide. |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| DATA CATEGORY/SUB-CATEGORY? | DATA CLASSIFICATION | BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY THIS AGENCY | AGENCY NAME | | |
|--|---------------------|--|---|-------------------------|-------------------------------|---|
| | | | | FORM OF DATA COLLECTION | FREQUENCY OF RECORD OF RECORD | PERIOD FROM TO |
| III. Water Resources B. Sub-surface Water 2. Quality Well Analysis | CU | General Hydrology, contamination studies, recharge studies | APT | AOP | 28 | Approximately 23,000 water analysis available from selected wells throughout the state. |
| Oil Field brine | CU | " | AP | AO | 44 | " |
| | | | | | 62 | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

AGENCY NAME TH/DB

| DATA CATEGORY / SUB-CATEGORY | ② DATA CLASSIFICATION | ③ BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ④ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | ⑤ FORM OF RECORD | ⑥ FREQUENCY OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
|------------------------------|--------------------------|--|--|---------------------|--------------------------|--|
| | | | OF DATA STORAGE | OF RECORD | FROM TO | |
| III. Water Resources | C. Man's Activities. | | | | | |
| Rice irrigation return flow | CU | | AB | W | 69 | 73 Brookshire and Garwood rice farms in southeast Texas (5 yr. study) |
| Impounding structures | CU | Administrative requirement | AP | O | 00 | Approximately 250 structures built and projected. |
| Water Treatment Facilities | CU | Administrative requirement | AP | O | 66 | Approximately 180 facilities. |
| Diversions-irrigation | CU | Surface water quantity measurements | P | 58 | | APPROX. 245 selected irrigators |
| Diversions-municipal | CU | General hydrology; operational, administrative requirements, forward projections | A | 60 | | APPROX. 150 selected municipalities |
| Diversions-industrial | CU | | A | 66 | | APPROX. 150 selected industries |
| Return flows-municipal | CU | | APCT | A | 66 | APPROX. 180 selected municipalities |
| Return flows-industrial | CU | | | A | 66 | APPROX. 180 selected industries |
| Diversions-municipal | CU | Surface water quality measurements | A | A0 | 57 | APPROX. 40 selected municipalities |
| Return flow-municipal | CU | General hydrology, etc. | A | A | 67 | APPROX. 120 selected municipalities |
| Return flow-industrial | CU | | A | A | 67 | APPROX. 120 selected industries |
| Well Pumpage-Irrig. | CU | Ground water quantity General Hydrology, etc. | APCT | P | 58 | APPROX. 350 selected wells |
| Well Pumpage-Man. | CU | | APCT | A | 55 | |
| Well Pumpage-Ind. | CU | | APCT | A | 55 | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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AGENCY NAME TWDB

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
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| | | | FORM | ④ FREQUENCY OF RECORD | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| III. Water Resources | | | | | | |
| C. Man's Activities | | | | | | |
| Oil field brine | CU | Contamination studies (TRIC) | APT | P | 67 | Approx. 750 selected wells |
| Oil field brine | CU | Recharge studies | AP | P | 61 | Approx. 450 selected wells |
| Pumping tests | CU | | AP | P | 39 | |
| Schedules | CU | | A | CP | 37 | Approx. 200,000 |
| Waste Disposal-Mun. | CU | Administrative requirements | APOT | A | 66 | |
| Waste Disposal-Ind. | CU | | APOT | A | 66 | |
| Waste Disposal-011 field brine | CU | | AP | A | 61 | Approx. 350 selected entries |
| Waste Disposal-011 field brine | CU | | AC | A | 67 | Approx. 250 selected entries |
| Reservoir Contents | U | USGS | ACT | DM | 30 | Approx. 55 reservoirs |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| | | AGENCY NAME TWDB | |
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| | | ④ FORM, ⑤ FREQUENCY (S) PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| | | ⑦ OF DATA OF STORAGE COLLECTION | FROM TO |
| DATA CATEGORY / SUB-CATEGORY | | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | |
| IV. Geologic Resources | | ① DATA CLASSIFICATION Irrigation Studies, requirement studies | |
| A. Surface | | U Project evaluation, design foundations, recharge studies (U.S.G.S) | |
| Soil Summary | | AT AB AO | |
| Topographic maps | | CU | |
| Statewide by county First-order maps cover 70% of the state; additional 2% coverage is in progress | | | |

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AGENCY NAME TUDB

| DATA CATEGORY SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
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| | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF RECORD OF COLLECTION | ⑥ PERIOD OF RECORD FROM TO | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| IV. Geologic Resources | | | | | | |
| B. Sub-surface | | | | | | |
| Ground Water Mapping | CU | General Hydrology availability studies | APB | P | 37 | Statewide coverage |
| Water Well Drillers | CU | | A0 | AOP | 20 | Approx. 110,000 logs on file; statewide |
| Logs | | | A0 | AD | 55 | 1,000 from selected wells on file |
| Water Well Electric | CU | | A | C | 00 | Approx. 75,940 logs on file. Logs available for 251 counties. |
| Logs | | | | | | |
| Electric and radioactive logs | CU | | | | | |

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| DATA CATEGORY/SUB-CATEGORY | DATA CLASSIFICATION | BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | | AGENCY NAME TWOB |
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| | | | ③ FORM OF DATA COLLECTION | ④ FREQUENCY OF RECORD FROM TO | ⑤ PERIOD OF RECORD FROM TO | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE | |
| V. Socio-Economic Resources A. Demographic 1970 | U | 1970 census of population summary tapes and published reports | TP | 0 | 70 | 70 | Statewide by varying geographical breakdowns, from census tracts thru state totals. Includes all cities over 2500 population. |
| Population Projections | U | Population projections for Texas counties | AC | 0 | 70 | 2020 | Statewide by county |

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QUESTIONNAIRE

AGENCY NAME TIDB

| DATA CATEGORY/SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ FORM OF DATA OF RECORD | ④ FREQUENCY OF RECORD COLLECTION | ⑤ PERIOD OF RECORD COLLECTION | ⑥ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | DESCRIPTION OF DATA COLLECTION COVERAGE | |
|-----------------------------|-----------------------|---|--|----------------------------------|-------------------------------|---|---|----------------------------------|
| | | | | | | | FROM | TO |
| V. Socio-Economic Resources | | | | | | | | |
| B. Economic | Earnings & Income | U | Income & earnings by major sector; location.quotients; OBE tapes | T | P | 29 | 69 | Statewide by county and SMSA |
| Economic Indicators | | U | Various indicators of economic activity and resources | TA | P | 49 | 70 | Statewide by county |
| Recreational resources | | U | Inventory of recreational facilities. | A | 0 | 68 | 68 | 39 County San Antonio Study Area |

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QUESTIONNAIRE

| ① DATA CATEGORY /SUB-CATEGORY | ② DATA CLASSIFICATION | ③ BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ⑤ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
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| | | | ④ FORM OF DATA COLLECTION | ⑤ FREQUENCY OF RECORD STORAGE | ⑥ PERIOD OF RECORD FROM TO |
| I. METEOROLOGICAL RESOURCES | A. Climatological | U | Hydrology Studies, & severe weather reports for maintenance & traffic services. | C | |
| | B. Air Quality | CU | Maintenance of Highway Tunnel | A | |
| | C. Man's Activities | | | | One Site - Baytown LaPorte Tunnel |

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| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | ④ DESCRIPTION OF DATA COLLECTION COVERAGE |
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| | | | ⑤ FORM OF DATA STORAGE | ⑥ FREQUENCY OF DATA COLLECTION | ⑦ PERIOD OF RECORD FROM TO | |
| II. BIOLOGICAL RESOURCES | | | | | | |
| A. Animal | | | | | | |
| B. Plant | | | | | | |
| 1. Rare and nearly extinct plant life. | CU | For development of highway landscaping for roadside beauty and erosion control. | A | C | | Shrubs, wildflower, trees, statewide. |
| 2. Native or Acclimatized Plant material. | CU | Same as II. B. 1. | A | C | | Trees, shrubs, grass to include all plant life. |
| C. Micro-Organisms | | | | | | |
| D. Man's Activities | | | | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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QUESTIONNAIRE

| | | AGENCY NAME _____ THD _____ | |
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| | | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | |
| | | ③ FORM ④ FREQUENCY ⑤ PERIOD ⑥ OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| | | OF DATA OF COLLECTION | FROM TO |
| DATA CATEGORY /SUB-CATEGORY | | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | |
| III. WATER RESOURCES | | Design, Construction of Maintenance of Highway Hydraulic facilities.(USGS) Same as III. A. 1. | |
| A. Surface & Sub-surface | | U | A P |
| 1. Recorded Stream-flow Data | | | |
| 2. Highway-Stream Crossing Data | | CU | |
| B. Ground | | U | |
| 1. Quantity | | | |
| 2. Quality | | CU | |
| C. Man's Activities | | CU | AT P |
| 1. Features of Highway hydraulic facilities. | | | |
| 2. Reservoir Design and Operation | | U | |
| <p>Highwater, channel characteristics, damage by floods, etc. obtained by field personnel at various statewide locations.</p> <p>Statewide at rest areas with drinking water facilities.</p> <p>Statewide at rest areas with drinking water facilities.</p> <p>Statewide coverage for all water related structures on highway system.</p> | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| | | | FORM OF DATA COLLECTION | FREQUENCY OF RECORDING | PERIOD OF RECORD |
| ④ DESCRIPTION OF DATA COLLECTION COVERAGE | | | | | |
| IV. GEOLOGIC RESOURCES | | | | | |
| A. Surface | CU | Design, construction and maintenance of highway system. | A | P | Various locations throughout State. |
| 1. Aerial Photographs | CU | Same as IV. A. 1. | A, B, C | P | Topographic data taken from aerial or field surveys at various highway locations throughout State including Planning Survey Maps of every county. |
| 2. Topography | U | Same as IV. A. 1. (USDA) | | | |
| 3. Soil Classification | CU | Same as IV. A. 1. | A | P | Ground Survey monuments established at various statewide locations to supplement U.S.C.&G. surveys. |
| 4. Ground Survey Monuments | CU | Same as IV. A. 1. | A | P | Classification and engineering properties of materials from borrow pits - statewide. |
| B. Sub-Surface | CU | Same as IV. A. 1. | A | P | Properties & description of material cored for foundation exploration at bridges and other sites on the highway system - statewide. |
| 1. Borrow Pit Material | CU | Same as IV. A. 1. | A | P | Statewide at bridge sites on highway system. |
| 2. Core Data | CU | Same as IV. A. 1. | A | P | |
| 3. Test Pile Data | CU | Same as IV. A. 1. | A | P | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | AGENCY NAME | | THD ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
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| | | | | ④ FORM OF DATA OF STORAGE | ⑤ FREQUENCY OF RECORD COLLECTION | |
| C. Man's Activities | | | | | | |
| 1. Research | CU | Same as IV. A. 1. | | AP | P | |
| 2. Highway structures | CU | Same as IV. A. 1. | | APT | C | |
| 3. Highway Locations | CU | Preparation of Official Departmental Map of entire designated Highway system, with Federal Aid Primary System, Multi-lane highways, counties, towns, railroads, etc. | | B | A | |
| 4. Rest Areas | CU | Same as IV. A. 1. | | P | A | Statewide inventory of all highway rest areas & roadside parks with descriptions of location and improvements at each site. |
| 5. Highway, Road and Street Mileage | CU | Inventory of mileage for design, construction & maintenance of the Texas Highway System. | | A, B, P C, T | C | Statewide inventory of city, county and State, streets, roads & highways. |
| 6. Ferrying Operations | CU | Operation of the portions of the highway system requiring ferries. | | A | C | Ship logs on climatology and severe weather at Aransas Pass & Port Bolivar. |

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QUESTIONNAIRE

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | AGENCY NAME _____ | | THD | |
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| | | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF RECORD COLLECTION | | ⑥ PERIOD OF RECORD FROM TO |
| V. SOCIO-ECONOMIC RESOURCES | A. Demographic | U | Design, construction, and maintenance of the Highway System. | A, B, P, C, T | | | |
| | | | | | | | |
| | B. Economic | 1. Population | CU | Design, construction and maintenance of the Highway System. | | | |
| | | 2. Highway Transportation | | | | | |
| | | 3. Signs and Junkyards | | | | | |
| | | 4. Road Life & Costs | CTU | Same as V. B. 1. | A | A | |
| | | | | Highway Beautification | A | C | |
| | | | | | | | |
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IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

QUESTIONNAIRE

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AGENCY NAME

| DATA CATEGORY/SUB-CATEGORY | ② DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
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| | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF DATA COLLECTION | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| 4. Boat Ramps | CU | Implementation of Boat Ramp program. | A, P | P | FROM TO | Statewide |
| 5. Noise | CU | Noise evaluation and abatement studies. | A | P | | Various locations statewide. |
| C. Archaeologic | CU | Preservation of archaeologic sites and findings. | A | P | | Statewide at various locations. |
| D. Historical & Pre-historic Location | CU | Preservation of historic and prehistoric locations involving highway-coordinated with Texas Historical Society | | | | Statewide locations ranging from Charter Oaks to Dinosaur Tracks. |
| E. Legal | | | | | | |
| 1. Highway Lands | CU | Right-of-way acquisition Building & Storage Site Acquisition | A, B, C, T | C | | Statewide-ownership and property description of land involved with State Highway System, as well as building and storage facilities. |
| 2. Private & Public Utilities | CU | Right-of-way acquisition | A, B, C, T | C | | Communications, transportations, and radiation monitoring, Statewide. |
| F. Natural Emergencies and Civil Defense | CU | | | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION
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| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | AGENCY NAME | | TSDH | |
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| | | | | ④ FORM OF DATA OF STORAGE | ⑤ FREQUENCY OF COLLECTION | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| WATER RESOURCES | | | | | | | |
| Domestic Water Treatment Facilities | CU | Review of plans and specifications for domestic water systems. | A | P | 35 | | All domestic water systems in the State are monitored by personnel of State Health Department District Offices on a continuing basis. |
| Domestic water quality. | CU | Chemical and bacteriological quality of all domestic water systems is determined by State Laboratories on a continuing basis. | A | P | 35 | | Water samples are submitted by water system operators and also by State Health Department field personnel, state-wide. |
| Flouride ion adjustment in domestic water systems. | CU | Laboratory tests are made to determine levels of fluoride in systems undergoing adjustment. | A | P | 35 | | Water samples are submitted by system operators and by State Health Department field personnel on all plants that are making adjustments. |
| Heavy metals determination in major rivers and oyster producing areas. | CU | Surveillance is maintained of rivers and shellfish producing areas to detect any public health danger from heavy metals. | A | P | 68 | | All fish and shellfish producing areas are monitored by field personnel for heavy metals. |
| Oyster harvesting area classification. | CU | Safe and unsafe oyster harvest areas are designated by State Health Department, based on data collected by field personnel. | A | P | 35 | | All oyster producing areas are sampled by State Health Department personnel. |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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|--|----|-----------------------|--|---------------------------|--------------------------------|--------------------|--|---|-------------|------|
| <u>WATER RESOURCES</u> | | | | | | | | | | |
| Coastal water quality | CU | | Chemical, organic and bacteriological quality of coastal waters of the State are maintained. | C | P | 57 | All coastal waters are routinely sampled by State Health Department personnel. | | | |
| River water bacteriological water quality. | CU | | All major rivers are routinely sampled to determine levels of coliform bacteria and fecal coliform bacteria. | C | P | 68 | Personnel from the State Health Department, and its field offices, cover all major rivers and selected public parks. | | | |
| <u>WASTEWATER</u> | | | | | | | | | | |
| Domestic wastewater plans and specifications. | CU | | All plans and specifications state-wide, are reviewed for adequacy, except those built with the aid of Public Law 660 funds. | A | P | 68 | Plans are submitted by consulting engineers. | | | |
| Domestic wastewater treatment plant inventory. | CU | | Inventory of components used in treating wastewater and results of B.O.D. and suspended solids tests when samples are available. | C | P | * | Inventory data taken from construction plans or from field inspections. Samples usually collected by Texas Water Quality Board field personnel and analyzed by State Health Department Laboratory. | | | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| QUESTIONNAIRE | | | | | | |
|-----------------------------|-----------------------|---|---------------------------|-------------------------------|--------------------|---|
| AGENCY NAME | TSDH | | | | | |
| DATA CATEGORY/SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ FORM OF DATA COLLECTION | ④ FREQUENCY OF RECORD STORAGE | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| <u>LAND USE</u> | CU | Location of sanitary landfills, state-wide. | A | P | 68 | State-wide. |
| Sanitary landfills. | CU | | A | P | | |
| <u>BIOLOGICAL RESOURCES</u> | | Vector control status. | | | | |

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QUESTIONNAIRE

| DATA CATEGORY / SUB-CATEGORY | | DATA CLASSIFICATION | BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
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| ① | ② | | | ③ FORM OF DATA COLLECTION | ④ FREQUENCY OF DATA STORAGE | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| III. WATER RESOURCES MAN'S ACTIVITIES | 1. 'Bulletin 70" | CU | A Survey of Secondary Recovery and Pressure Maintenance Operations in Texas | P | P | 52 | 69 |
| | | | | | | | Published Biennially. "Bulletin 70" covers 1968 and 1969 and gives data on all secondary recovery projects in Texas, including 3159 active projects and 289 abandoned projects in more than 1200 fields involving over 900 operators. |

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AGENCY NAME _____

TRRC

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
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| | | | ④ FORM OF DATA OF STORAGE | ⑤ FREQUENCY OF COLLECTION | ⑥ PERIOD OF RECORD FROM TO |
| IV. GEOLOGIC RESOURCES SUB-SURFACE | 1. Oil & Gas Maps | CU Oil and Gas Field Maps | B | C | 40 72 |
| | | | | | 1000 original oil & gas field maps (Scale: 1" = 1000') Location of each Texas oil & gas field shown. Also, location of each lease by lease name and number and location and number of each well on every lease. Also, status of each well, i.e. undrilled location, oil, gas, dry hole, salt water disposal, or injection. Also, total depth, reservoir name and depth, date well drilled and results of tests. |
| | CU County Oil and Gas Maps | | B | C | 40 72 |
| | | | | | 240 original maps of all Texas producing counties showing the location of every oil and gas field therein, all lease names and numbers, and location and well number of every well. Varying scales: 1" = 2000', 1" = 3000', 1" = 4000', and 1" = 1 mile. |
| | CU Offshore Oil and Gas Maps | | B | C | 67 72 |
| | | | | | 41 original Texas offshore oil and gas maps showing all offshore oil and gas fields; location and number of each lease and each well and well number. Scale: 1" = 600'. |
| 2. Salt Water Disposal Wells | CU | Ledger file listing all permits for salt water disposal wells into zones not productive of oil or gas. | 0 | C | 50 72 |
| | | | | | Ledger lists chronologically each permit showing date issued, operator, field and county in which well is located, lease name and number, depth of disposal zone and quantity of salt water disposal of daily. |

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| | | | | FORM OF DATA OF STORAGE | ④ FREQUENCY OF RECORD | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| | | | | FROM | TO | | |
| IV. GEOLOGIC RESOURCES MAN'S ACTIVITIES | A. Oil Well Records | CU | Master Oil File oil allowable | T | M | 70 | 72 Oil well identification and allowable for 146,018 wells (600 bytes, 1200 digits) |
| | B. Oil Lease Records | CU | Lease Master File used with Master Oil File | T | M | 68 | 72 Oil Lease identification and lease information for 52,213 leases. (600 bytes, 1200 digits) |
| | C. Oil Multi-Well Records | CU | Multi-well Master File used with Master Oil File | T | M | 70 | 72 Multi-well, oil and gas producing wells, identification and allowable for 9,338 multi-well records (600 bytes, 1200 digits) |
| | D. Oil Field Records | CU | Oil Field Master File used with Master Oil File | T | M | 70 | 72 Oil field identification and information records for 17,753 fields (600 bytes, 1200 digits) |
| | E. Gas Master File Records | CU | Gas Field identification, tests and allocation, well allowable and production, field summary information and 14 month history | T | M | 68 | 72 Gas field and well identification, allowable, production and history information for 15,690 fields, 36,881 wells (600 characters) |
| | F. Oil and Gas Production | CU | Oil and Gas Production from oil wells by lease | T | M | 68 | 72 Oil Lease Oil and Gas Production information for 52,213 leases (66 characters) |

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AGENCY NAME

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| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ FORM OF DATA STORAGE | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | ④ FREQUENCY OF RECORD COLLECTION | ⑤ PERIOD OF RECORD COLLECTION | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE FROM TO |
|--|--------------------------|--|---------------------------|--|----|-------------------------------------|----------------------------------|--|
| | | | | ⑦ DESCRIPTION OF EACH EXCEPTION BY RRC DISTRICT NUMBER, OPERATOR NAME, FIELD NAME AND LEASE NAME AND NUMBER. DATE OF EXCEPTION SHOWN AS WELL AS EFFECTIVE PERIOD. | | | | |
| IV. GEOLOGIC RESOURCES MAN'S ACTIVITIES (Cont.) | CU | Master Index card file of exceptions granted oil and gas operators to order #20-56,841 prohibiting all operators from using salt water disposal pits for storage and evaporation of oil field brines | O | C | 69 | 72 | | Identification of each exception by RRC District number, operator name, field name and lease name and number. Date of exception shown as well as effective period. |
| G. Exceptions to Statewide No-Pit Order | CU | Master File of all oil spills which have occurred in the state. | O | C | 70 | 72 | | Each oil spill is required to be reported by the operator or pipeline on RRC Form H-8. Form shows RRC District, county, name of company, lease name and number, date spill occurred, total barrels lost, cause of loss and remedial measures taken. These reports are combined into a monthly master report. |
| H. Oil Spills | CU | | A | C | 66 | 72 | | |
| I. Original Oil & Gas Well Files | CU | Files by field name, lease number and well number of oil and gas well completion reports, workover records, tests and plugging records. | M-A | C | 20 | 65 | | Data similar to above identified by operator number (5 digit). |
| Oil and Gas Well Files | CU | | A | C | 20 | 72 | | Records of all public oil & gas hearings. Files also contain records of all injection well permits where injection is into a zone productive of oil or gas. |
| Oil & Gas Hearing Files | | | | | | | | |

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| | | | FORM OF DATA COLLECTION | ④ FREQUENCY OF RECORD | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| IV. GEOLOGIC RESOURCES MAN'S ACTIVITIES (cont.) | | | | | | |
| I. (Continued) | | | | | | |
| Files of Original Rule 37 (Well spacing orders) and all Regular Commission Orders | CU | Original of all RRC orders. | A | C | 20 72 | |
| J. Annual Report of the Oil and Gas Division | CU | Each Annual Report gives data on oil and gas production, gasoline plants, cycling plants, refineries, carbon black plants, pressure maintenance plants. | P | A | 20 71 | |
| K. Report of Oil & Gas Annual Production by Active Fields - 1971 | CU | For active oil fields, gives discovery date, depth, oil gravity, 1971 casinghead gas and oil production and cumulative oil production to 1-1-72. For active gas fields, gives total wells and number of producing wells in each field and 1971 gas and liquid hydrocarbon production by fields. | P | A | 71 | |
| L. Report of Inactive Oil and Gas Fields | CU | Same as above for all inactive oil and gas fields. | P | A | 71 | |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| | | AGENCY NAME | TPW |
|-----------------------------|--------------------------|---|---|
| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY ④ FORM ⑤ FREQUENCY ⑥ PERIOD ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE ⑧ OF DATA COLLECTION STORAGE FROM TO |
| | | | |
| I. Meteorological Resources | Climatological | General coastal hydrographic studies | A D 1971 Mid-coastal zone |

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| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | | AGENCY NAME | TPW |
|------------------------------|---------------------------------------|---|---|-------------|--------------------|---|---|-----|
| | | | ④ FORM | ⑤ FREQUENCY | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE | | |
| | | | OF DATA COLLECTION | FROM | TO | | | |
| II. Biological Resources | | | | | | | | |
| A. Animal | Fish and shellfish Fishery surveys | CU | Legal requirement for management purposes | AB MF | C | 1958 | Coastal zone | |
| | Commercial fish landings | CU | Legal requirement for management purposes | PTA | M | 1935 | Coastal fishery landings by species by area of capture by value | |
| | Fish habitat surveys | CU | Legal requirement for management purposes | ABP | O | 1969 | Coastal zone by land tract | |
| | Fish Trapping | CU | Effects of removal of white crappie | T | O | 1968 | Lake Meridian, Texas | |
| | Species Code List | U | Code numbers for plants and animals | C | O | | North American species | |
| | Fish, Life Histories | CU | To provide a basis for fisheries management | P | P | 1953 | Age and growth, food habits, reproduction, movements and distribution | |
| | Species Inventories | CU | For management and harvest | P | P | 1953 | By lake or stream | |
| | Fish stocking | CU | Statutory requirement | TP | A | 1940 | By individual lake, pond or stream by county by owner, public and private | |

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|-------------------------------------|--|--|--|----------------|--------------------------|--|
| | | | FORM ④ | FREQUENCY ⑤ | PERIOD OF RECORD ⑥ | |
| II. Biological Resources - Wildlife | Hunter harvest data | CU | PT | A | 1950* | Kill records listed by county and species. |
| | Population inventories | CU | P | A | 1950 | Recorded by county and species (waterfowl, deer, turkey, doves) |
| | Weight and age data | CU | P | A | 1950 | Collected by regulatory counties. |
| | Production data | CU | P | A | 1950 | Production by county and species. |
| | Mortality data | CU | P | A | 1950 | Collected by county. |
| | Food habits | CU | P | A | 1950 | Collected by regulatory project. |
| | Vegetative studies | CU | P | P | 1950 | Type map by regulatory counties to determine changes. |
| | Banding and tagging | CU | PT | P | 1950 | By species, doves, deer, antelope, waterfowl, quail, pheasant. |
| | Economic data | CU | P | P | 1950 | Card pools - hunter surveys |
| | Public use data of wildlife management areas | CU | P | A | 1955 | Number of hunters and hunter success. |
| | | | | | | * Collected for various years after 1950 but generally most data collections began in 1950-1952. |

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|---|--------------------------------------|--|--|-------------------------------------|---------------------|
| | | | ⑤ FORM OF DATA STORAGE | ⑥ FREQUENCY OF RECORD COLLECTION | ⑦ PERIOD FROM TO |
| II. (Continued) | B, Plant Table of Vegetative Regions | CU | c | | All of Texas |
| Location of vegetative regions in ten minute blocks | | | | | |

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| | | AGENCY NAME | | TPW | | | | |
|-----------------------------|--------------------------|---|--|---|---|------|------|---|
| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY ④ FORM ⑤ FREQUENCY ⑥ PERIOD ⑦ OF DATA OF RECORD FROM TO OF COLLECTION OF STORAGE | | | | |
| | | | | | | | | |
| II. (Continued) | | | | | | | | |
| D. Man's Activities | | CU | Analysis of shooting preserve information | T | A | 1965 | 1971 | Statewide |
| Shooting Preserve | | CU | Names and addresses of applicants | T | A | 1967 | | All hunters applying for hunting permits on Texas Parks and Wildlife Game Management Areas. |
| Public Hunts | | | | | | | | |

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| ① DATA CATEGORY / SUB-CATEGORY | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
|-----------------------------------|--|--|------------------------------|-----------------------|--|
| | | ④ FORM OF RECORD | ⑤ FREQUENCY OF COLLECTION | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| III. Water Resources | | | | | |
| A. Surface | | | | | |
| Water quality | CU | For research and to monitor environment changes | P | P | By individual lake or stream |
| Water impoundments | CU | For program planning | P | P | By county |
| | | | | | |

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|-----------------------------|-----------------------|---|---|-------------|--------------------|---|--|-----------|
| | | | ④ FORM | ⑤ FREQUENCY | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE | | |
| III. Water Resources | | | | | | | | |
| Surface | CU | Required for fishery management | AP | M | 1958 | | Chemical and physical characteristics of bay waters. | |
| C. Man's Activities | CU | Registration Master | DT | D | | | Registration information on over 375,000 Texas boats. | |
| Boats | CU | Cross reference master | DT | D | | | Cross reference of owner's name to boat registration number. | |
| Boats | CU | Registration statistics | DT | D | | | Information used for boat registration master file. | |

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| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | | ⑤ FORM OF RECORD ④ FREQUENCY OF COLLECTION OF DATA STORAGE | ⑥ PERIOD FROM TO ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE |
| | | | | | |
| V. Socio Economic Resources | A. Demographic Public access points | CU | For public information | P | 1967 1971 By county |

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|--|-----------------------|---|---|----------------------------------|------------------|--|-----|
| | | | ④ FORM OF DATA OF COLLECTION | ⑤ FREQUENCY OF RECORD OF STORAGE | ⑥ PERIOD FROM TO | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE | |
| Park Master Plans Contain data on State Parks in categories I, II, III, IV, & V "Archeological" | C/U | Required to develop parks in accord with V.C.S. Art. 5421q. and professional standards-parts from U.S.D.A., S.C.S., Weather Bureau, Forest Service, etc. & in-house surveys. | A/B | 0 As needed | -- | 26 State Parks of 77 areas | |
| Inventory of Outdoor Recreational areas, public & private which includes number of facilities by type & quality | C/U | Legal Requirement V.C.S. 6081r | T | P | 1965 | 1969 All public & private outdoor recreation areas in Texas Est. 4,000 | |
| Participation & Reference data of Texans for 26 outdoor recreation activities w/ projections to 1975-1980 | C/U | Legal Requirement V.C.S. 6081r | T | P | 1968 | 1968 From 15,000 household interviews & onsite interviews of 7,500 recreationists across the state - data defined by County, State Planning Regions, & Metro Areas. | |

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| DATA CATEGORY /SUB-CATEGORY | DATA CLASSIFICATION | BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | |
|-----------------------------|---------------------|--|---|---|---|
| | | | FORM | ④ FREQUENCY (⑤ PERIOD OF DATA OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| I. Meteorological Resources | | | | | |
| Climatological | | | | | |
| Precipitation | | | | | |
| II. Water Resources | U | Rainfall records - USWB publications | | | |
| Surface | | | | | |
| Drainage Surveys | CU | Survey of drainageways & related capacity | P | 0 | 1947 Present Intensified agricultural areas of coastal basins |
| Streamflow monitoring | U | Discharge of streams & rivers at selected points - USGS & TWDB publications | P | 0 | 1956 Present 92 watersheds up to 250,000 acres in size. |
| Flood control plans | CU | Design information for flood control structures | P | 0 | 1947 Present Lower Rio Grande, Sabine, Red, Trinity, Colorado, Brazos & Coastal basins. |
| River basin surveys | CU | Study of water & land resources | P | 0 | |
| III. Geologic Resources | | | | | |
| Surface | | | | | |
| Aerial Photographs | U | 8" = 1 mile black & white photographs (use SCS photos obtained thru USDA-ASCS contract flights.) | | | |
| Topographic maps | U | 7½' & 15' USGS maps | | | |
| County road maps | U | Texas Highway Department | | | |
| Land Survey | CU | Delineation of surface soil-type boundaries on maps with interpretation | P | 0 | - - 42 counties |

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|-----------------------------|--------------------------|--|------------------------|--------------------|---|
| DATA CATEGORY /SUB-CATEGORY | ① DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
| | | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ④ FORM OF DATA STORAGE | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| Soil Map | CU | Delineation of surface soil-type boundaries on maps | B | 0 | - - - 66 counties |
| Soil Map | CU | Generalized delineations of surface soil-type boundaries | B | 0 | - - - 77 counties |
| <u>Man's Activities</u> | | | A | 1939 | - 192 districts covering 99% of state |
| Subdivision of Government | CU | Description of soil & water conservation district boundaries and other records | | | |

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|----------------------------|-----------------------|---|--|---|---------|-------------------------------|----------------------------|---|-------------------------------------|
| | | | | ⑦ | ⑧ | | | | |
| I. Geology--Surface | soft | Controlled Mosaics (4875) 7-1/2 min. (Tobin) 1:24, 000 | A | 2500/yr. | 1970 | | | | |
| | | Stereo Pairs (22, 500) 1:24, 000 1:50, 000 1:60, 000 | A | 600/yr. | 1930 | | | | |
| | | Indices to Stereo (250) Mapping | A | 40/yr. | 1930 | | | | |
| | A. Areal Photography | soft | Bulletins & Publications (70) | P | 1-2/yr. | 1915 | | | |
| | | | Reports of Investigations (45) | P | 1/yr. | 1946 | " | " | --up to 200 p. |
| | | | Guidebooks (15) | P | 2/yr. | 1961 | " | " | --up to 100 p. |
| | | | Circulars (7) | P | 1/yr. | 1965 | " | " | --up to 25p. |
| | | | Mineral Resource Circulars(35) | A | 1/yr. | 1930 | | | Mimeographed--reproduced on request |
| | | | Mineral Resource Survey Circulars (50) | A | 6/yr. | 1936 | " | " | " |
| | | | Open File Reports (200) | A | | | | | |
| B. Published Geologic Data | | | | | | | | | |

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|------------------------------|---------------------|--|---|-------------------------|------------------|---|
| | | | FORM OF DATA STORAGE | FREQUENCY OF COLLECTION | PERIOD OF RECORD | DESCRIPTION OF DATA COLLECTION COVERAGE |
| *C. Published Maps | soft | Geologic Atlas Sheets (15) 1:250,000 | P | 2/yr. | 1965 | Standard Army Map format |
| | soft | Quadrangles & Special Areas(40) 1:24,000 1:62,500 1:100,000 | P | 2/yr. | 1952-1967 | Varied scales; oil & gas, minerals, prospect areas of general interest. |
| | soft | Miscellaneous Maps (30) | P | 2/yr. | 1955 | |

*Does not include maps in Geologic Data Publications

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|----------------------------|-----------------------|--|------------------------|---|--------------------|
| | | | | ④ FREQUENCY OF RECORD | ⑤ PERIOD OF RECORD |
| D. Basic Map Data | soft | Topographic Maps 1:24,000 (6,000) 1:32,000 (450) 1:62,500 (100) <u>6,550</u> | A | 1,000/yr. | 1904 |
| | | Army Map Series (300) | A | 60/yr. | 1965 |
| | soft | State Reclamation Series (165) | A | | |
| | soft | Geodetic Survey (13) | A | | |
| | soft | Darton Series (14) | A | | |
| | soft | Brazos River District (196) | A | | |
| | soft | Reservoir Sites (24) | A | | |
| | soft | Watersheds (11) | A | | |
| | soft | Miscellaneous (125) | A | | |
| | | TOTAL 7500 | | | |

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|--|-----------------------|---|---|---------------------|-----------------------------|--------------------------|----------------------------------|----------------------------|---|
| | | | ⑦ FORM OF DATA STORAGE | ⑧ NUMBER OF RECORDS | ⑨ DATE OF RECORD COLLECTION | ⑩ DATE OF RECORD FROM TO | | | |
| E. Non Topographic Texas Maps Base Data | | | | | | | | | |
| | soft | Quads (80) | A | | 1940 | | | | |
| | soft | Coop Maps (20) | A | | 1950 | | | | |
| | soft | County Highway Maps (254) | A | | 50/yr. | 1960 | | | |
| | soft | Geology Maps (240) | A | | 60/yr. | 1915 | | | Varied Scales |
| | soft | Mineral Resource Maps (100) | A | | 3/yr. | 1930 | | | |
| | soft | Base Maps (50) | A | | | | | | |
| | soft | Ownership Maps (50) | B | | | | | | |
| | soft | Right of Way Maps | | | | | | | |
| | | Highway (50) | B | | | | | | |
| | | Railroad (20) | B | | | | | | |
| | soft | Soil Maps (100) | B | | | | | | |
| | soft | Survey Maps (300) | B | | 1/yr. | | | | |
| | | TOTAL 1375 | | | | | | | |

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|--|--------------------------|--|---|--|
| F. U.S.C.S. Map Series-- out of state | soft | Miscellaneous Maps--U.S. (50) State Geologic, Mineral Strat., Struct. (1125) | P P | 5/yr. 100/yr. 1940 1910 |
| | soft | Geologic Atlas of U.S. (200) | P | |
| | soft | Geologic Quadrangle Maps (1025) | P | |
| | soft | Hydraulic Investigation Field Series (500) | P | |
| | soft | Mineral Investigation Field Studies (300) | P | |
| | soft | Mineral Investigation Resource Map (50) | A | |
| | soft | Misc. Geologic Invest. (700) | A | |
| | soft | Water Resource Invest. (60) | A | |
| | | Total Out of State--U.S. 4,000 | | |
| | | * Foreign Maps ----- 1500 | | |

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|---|----------------------------------|---|--|----------------|--------------------------|
| | | | FORM ⑤ | FREQUENCY ⑥ | PERIOD OF RECORD ⑦ |
| | | | DESCRIPTION OF DATA COLLECTION COVERAGE ⑧ | | |
| C. Mineral Studies | soft | See Description | 7626 | A | 300/yr. |
| --Laboratory Analysis | | | analyses | | 1950 |
| Mineral Separation Sieve Analysis Hydrometer Clay Testing | | | | | |
| Spectrographic Atomic Absorption Spectrophotometric Heating X-ray | | | | | |

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|--------------------------------------|-------------------------------------|--|------------------------------|---|----|--------------------------|-----------------------|--|-------------|---------------|
| | | | | FROM | TO | | | | | |
| II. Geology--Subsurface | | | | | | | | | | |
| <i>A. Published Geologic Data</i> | | | | | | | | | | |
| soft | Bulletins of Publications (50) | P | 1/yr. | 1915 | | | | Geologic Phenomena in Texas--up to 500p. | | |
| soft | Reports of Investigations (25) | P | 1/yr. | 1946 | " | " | " | " | " | -up to 200p. |
| soft | Circulars (8) | P | 1/yr. | 1965 | " | " | " | " | " | --up to 100p. |
| soft | Mineral Resource Circulars (5) | A | 10/yr. | 1930-961 | | | | Mineographed--Reproduced on request | | |
| soft | Well Record Circulars (40) | A | | 1928-1932 | " | " | " | | | |
| soft | Open File Reports (70) | A | | 1955 | " | " | " | | | |
| soft | Miscellaneous Maps and Sections (3) | P | | | | | | | | |
| <i>*B. Published Maps</i> | | | | | | | | | | |
| soft | Stratigraphic Sections (100) | A | 5/yr. | | | | | | | |
| soft | Structure (25) | A | 1/yr. | | | | | | | |
| <i>C. Non Topographic Texas Maps</i> | | | | | | | | | | |
| Base Data | | | | | | | | | | |

* Does not include maps in Geologic Data Publications.

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|---|--------------------------|--|--|--------------------------|---------------------------|
| | | | ④ FORM OF DATA | ⑤ FREQUENCY OF RECORD | ⑥ PERIOD OF COLLECTION |
| D. U.S.G.S. Map Series Out of State Base Data | Soft | Geophysical Investigation Prel. (900) | P | | |
| | Soft | Oil & Gas Invest. Chart (60) | P | | |
| | Soft | Oil & Gas Invest. Maps (100) | P | | |
| | Soft | Oil & Gas Prel. Maps (110) Total Out of State U.S. 2,000 | P | | |
| | Soft | Foreign Maps 500 | P | | |
| E. Well Sample & Core Laboratory | Soft | Drillers Logs (2,000,000) | A | 1930 | |
| | Soft | Mechanical Logs (9,000) | A | | |
| | Soft | Well Samples (8,000,000) | A | | |
| | Soft | Cuttings (61,000 wells) | A | | |
| | Soft | Cores (1200 wells) | A | | |
| | Soft | Scout Tickets (120,000 wells) | A | | |
| | Soft | Old Well Record Books (185) | A | | |
| | Soft | Thin Sections (100,000) | A | | |

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|---|--------------------------|--|--|-----------|--------|-----------|--|
| | | | FORM | FREQUENCY | PERIOD | OF RECORD | |
| ④ OF DATA OF COLLECTION FROM TO | | | | | | | |
| III. Geology--Man's Activities Published Geologic Data | Soft | Bulletins & Publications (5) | P | | 1915 | | Geologic Phenomena in Texas--up to 500p. |
| | Soft | Circulars (5) | P | 1/yr. | 1965 | " " " | " --up to 25p. |
| | Soft | Mineral Resource Circulars(15) | A | | 1930 | 1961 | Mimeo graphed--Reproduced on request |
| | Soft | Open File Reports (30) | A | | | | |

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|------------------------------|--------------------------|---|--|----------------------------|----------------------|-----------------------|---|--|
| | | | | FORM OF DATA STORAGE | COLLECTION | | | |
| Geological Resources | | | | | | | | |
| A. Surface | | | | | | | | |
| 1. Lands purchased | cu | Lands purchased through Veterans Land Board (Size Location Price Description) | A | C (once only per tract) | 1944 4/2 | | | State-wide - Rural |
| Veterans Land Board | | | | | | | | |
| 2. State land leases | C&U | Lease classification | A&C | C | annual 1971 - | | | State-wide by lease and county |
| a. Grazing | | | | | | | | |
| b. Agricultural | | | | | | | | |
| c. Surface | | | | | | | | |
| 3. Miscellaneous easements | C&U | Basement classification (pipelines, piers, dredging, telegraph, telephone) | A&C | C | 10 year lease 1962 - | | | State-wide by easement and county |
| a. State uplands | | | | | | | | |
| b. State submerged | | | | | | | | |
| 4. Excess acreage | C&U | Identification of unclaimed lands | A&C | P | 1965 - | | | State-wide by number and by county |
| | | | | | | | | |
| 5. Good Faith claimants | C&U | Identification of unsurveyed school lands | A&C | P | 1968 - | | | State-wide by number and county |
| | | | | | | | | |

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| DATA CATEGORY / SUB-CATEGORY | DATA CLASSIFICATION | BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | FORM OF DATA STORAGE | TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | DESCRIPTION OF DATA COLLECTION COVERAGE | |
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| | | | | | ④ FREQUENCY OF DATA COLLECTION | ⑤ PERIOD OF RECORD |
| 6. University lands | U | Description of university lands use | A | P | 1962 - | State-wide by lease |
| a. Grazing | | | | | | |
| b. Caliche | | | | | | |
| c. Easements | | | | | | |
| 7. County ownership maps | CU | State land identification as to unsold school lands, mineral classified, free royalty and lands owned by other state agencies | B | C | 51 - | State-wide title records, limited current data in most counties |
| 8. Easement on Public School Lands | C&U | Master files - index - legal- operations | A&CT | C | 5 Y - periodic lease | State-wide |
| 9. Grazing leases on Public School Lands | CU | Master files - index - legal- operations | A&CT | C | 5 Y - periodic lease | State-wide |
| 10. School Lands Classification | CU | Master files - index - legal- operations | A&CT | P | 1880's - | State-wide |
| 11. School Land - unsold | CU | Master files - index - legal- operations | A&C | C | 1880's - | State-wide |
| 12. School Land accts.-active | CU | Master files - index - legal- operations | A&C | C | 1910 - | State-wide |
| 13. Veteran Land Accounts | CU | Master files - index - legal- operations | A&C | C | 1950 - | State-wide |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

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| | | ③ FORM ④ FREQUENCY ⑤ PERIOD OF DATA STORAGE OF RECORD COLLECTION | | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| | | FROM TO | | |
| DATA CATEGORY/SUB-CATEGORY | | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | | ⑦ |
| 14. Maps-surface | | CU | Index | 1840 State-wide |
| a. | Original grantee | U | U.S. Dept. of Ag-Salt Lake City | B 1000' /" |
| b. | Photo | CU | Min. leasing tracts | O |
| c. | Submerged | CU | Pipeline leases | P |
| d. | Pipelines | CU | | C 10 yr interval |
| 15. Records and archives | | Original land grants and titles | File cabs in stack floor | 1956 Coastal zone - Gulf Subm. state owned lands, coordinate corner 1948 1967 Subm. lands |
| | | land records | | 1972 All original land grants and titles issued by Spain, Mexico, Republic of Texas and State of Texas |
| 16. Other | | CU | Pipeline leases | C 10 yr interval |
| a. | Upland and river bed pipelines | U | Metes & bounds | P 1870's 1931 |
| b. | Field notes | CU | Metes & bounds | P 1880's 1965 |
| (1) | University lands | School lands | | |
| (2) | Public | | | |
| B. Subsurface | | C&U | Mineral prospect permit classification | A&C 1900 - State-wide by county and permit |
| 1. Prospect permits | | | | |

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| | | | ④ FORM OF DATA STORAGE | ⑤ FREQUENCY OF COLLECTION | ⑥ PERIOD OF RECORD | ⑦ DESCRIPTION OF DATA COLLECTION COVERAGE | |
| 2. Sub-surface state oil & gas leases | CU | Exploration for and production AB of oil & gas on state leases (well locations, drilling, completions, production, plugging) | C | 51 - | | State-wide by six field inspectors | |
| 3. Mineral leases - University land, Public School Land, & other state lands (oil, gas, sulphur & other minerals) | CU | Master files - index - legal- A&CT operations | C | 1950 | | State-wide | |
| 4. Mineral production | CU | Master files - index - legal- A&CT operations | C | 1900 | | State-wide | |

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| I. Meteorological Resources | | | |
| A. Climatological Data | C & U | Rainfall, humidity, wind speed and direction for fire hazard rating. | |
| II. Biological Resources | | | |
| B. Plant | C & U | Kind, amount, and condition of forest resources. Numbers of trees by size and species, volumes of trees, forest acreage by condition and physiographic classes. | |
| 1. U.S.F.S. Survey | C & U | Number and size of insect or disease infestations. Landowner notification, control records, annual loss summaries. | A C & A '57 |
| 2. Forest Pest Surveys & Evaluations | C & U | State and national (located within state) champion trees based on size. Location and dimensions. | A O |
| 3. Champion Trees | C | Number and size of fires by time periods and geographic areas. | C '67 |
| C. Man's Activities | C & U | Same as above (requested and sent to U.S.F.S., Forest Fire Lab. at Macon, Ga.) | A A '70 |
| 1. Wildfire Occurrence | C | | |
| 2. Prescription Burning | C | | |

¹ Stored by U.S.F.S. on tape in New Orleans.² Additional data of same type available on cards with modified format, back to 1960. Soft data in files back to 1915.

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| | | AGENCY NAME | | TFS | |
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| 3. Texas Forest Drain | C & U | Survey of all primary wood-using industries. Develops use trends and updating of 10 year survey | A | Pinney-Woods report covers 37 most eastern counties. Post-Oak report covers the adjacent 26 counties. | ⑥ PERIOD FROM TO |
| 4. Forest Nursery Production and Distribution | C & U | Number and species of seedlings | A | Production from State Forest Nursery, distribution throughout state. | 1965 |
| V. Socio-Economic Resources | C & U | Listing from 1964 tax records of all owners having 40+ acres, estimated forest acreage. | T | 1950 | 1964 |
| A. Demographic | | | O | | 34 most eastern counties. |
| A. Landowner List | | | | | |

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| | | | ⑤ FORM OF DATA COLLECTION | ⑥ FREQUENCY OF RECORD FROM | ⑦ PERIOD OF RECORD TO | ⑧ DESCRIPTION OF DATA COLLECTION COVERAGE |
| II. Biological Resources Man's Activities | | Address, Equipment, Raw Material Requirements, and Products Manufactured. | A | C | 40 | File maintained at one central office |
| 3. Location and Description of Wood-using Industries | C | Woodland management activities, forest conservation education, and wood utilization. | A & C ¹ | C | 40 | 37 individuals reporting |
| 4. Case records of assist lent individuals, companies, and agencies by professional forestry staff. | C | | | | | |

Card records beginning July 1971 to date

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| | | | FORM ④ FREQUENCY OF RECORD OF DATA COLLECTION | ⑤ PERIOD OF RECORD OF DATA COLLECTION |
| ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE | | | | |
| I. Meteorological | | | | |
| A. Climatological | | | | |
| 1. Temperature | U | Indicative Average Temperatures-- U.S. Dept. of Commerce, Environmental Services Admin. (4x254) | | |
| 2. Humidity | U | Avg. Annual Relative Humidities-- <u>Ibid.</u> (3x254) | | |
| 3. Precipitation | U | Annual Rainfalls-- <u>Ibid.</u> (3x254) | | |
| 4. Degree days | U | Avg. No. Days over 90° & under 32° F-- <u>Ibid.</u> (4x254) | | |
| C. Man's Activities | C | Presence of Ordinances Regulating Industrial Smoke, Odor, and Noise (3x254) | | |
| I. Water Resources | | | | |
| C. Man's Activities | C | Totals & Growth Rate, 1964 & 1969 (3x458) | | |
| 1. Water Connections in City | C&U | Source, Capacity, & Demand--Texas State Dept. of Health (28x458) | | |
| 2. City Water Supply | U | 12 Item Analysis-- <u>Ibid.</u> (12x458) | | |
| 3. Chemical Analysis of City Water | C | Sources of Untreated Water (6x458) | | |
| 4. Untreated Water | C | Totals & Growth Rate, 1964 & 1969 (3x458) | | |
| 5. City Sewer Connections | C | Presence of Ordinances Regulating Waste Disposal (1x458) | | |
| 6. City Ordinances | C | Capacity & Demand (11x458) | | |
| 7. Sewage Treatment System in City | C | | | |

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| IV. Geologic Resources | | | | | |
| C. Man's Activities | | | | | |
| 1. City Telephone Main Stations | C | Tbals & Growth Rate, 1964 & 1969 (3x458) | | | |
| 2. City Gas Connections | C | Tbals & Growth Rate, 1964 & 1969 (3x458) | | | |
| 3. City Electric Connections | C | Tbals & Growth Rate, 1964 & 1969 (3x458) | | | |
| 4. New Buildings | C | Tbal, Commercial, & Residential Blgs Authorized by No. & Value, 1964-1969 (12x458) | | | |
| 5. Park Information | C | Number & Acreage of City & County Parks; Nearest State Park (4x254) (8x458) | | | |
| 6. Recreation Facilities | C | Number in City and County (7x254) (12x458) | | | |
| 7. City Regulations | C | Presence of Planning Commissions, Building Codes, & Zoning Ordinances (6x458) | | | |
| 8. City Streets | C | Miles & Surface of Streets (4x458) | | | |
| 9. Railroads | C | Names, Service, & Sample Shipping Times (30x458) | | | |
| 10. Airports | C&U | Size and Service of Nearest Major & Local Major Airport—Texas Airport Inventory, Texas A&M (75x458) | | | |
| V. Socio-Economic Resources | | | | | |
| A. Demographic | | | | | |
| 1. Jurisdictional Areas | C&U | Governmental & Economic Districts— Standard Sources (9x254) (11x458) | | | |
| 2. Demographic Groupings | U | By Race, Sex & Age for Counties, 1950 & 60—U.S. Census of Pop. (83x254) | | | |

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|--|-----------------------|--|---------------------------|----------------------------------|---|---|-------------|-----|
| 3. Education Levels | U | Median Years Completed, & Groupings by Sex & Educ. Level for Counties, 1950, 60, & 70— <u>Ibid.</u> (38x25 4) (23x254) | | | | | | |
| 4. Density, Rural-Urban, & Family Statistics | U | Totals, % Change, & Projections for Cities, Counties, Planning Regions, & Chamber of Commerce Regions, 1950-80— <u>Ibid.</u> (32x254) (25x458) | | | | | | |
| 5. Population Statistics | U | Totals, Passenger, Commercial & Farm Vehicles for Counties—Texas Highway Dept. (16x254) | | | | | | |
| 6. Vehicle Registration | U | Cross-Calculations of Pupils, Teachers, & Classrooms by Principal School District Serving City—Texas Education Agency (49x458) | | | | | | |
| 7. Education Capabilities | U | Distances to Nearest Public & Private Colleges & Universities (5x58) | | | | | | |
| 8. Higher Education Facilities | C | Availability of Protestant & Roman Catholic Churches & Synagogues (4x458) | | | | | | |
| 9. Religious Organizations | C | Related Institutions in Texas, 1969 (16x458) | | | | | | |
| 10. Hospitals | U | Form & Geographical Size of Govt. (4x458) | | | | | | |
| 11. Government | C | Graduates, Number & % not Entering Post-Secondary Programs, by Sex (9x254) | | | | | | |
| 12. Post-Secondary Program Entrants | C | Texas, & Other U.S. Cities—Highway Maps (44x458) | | | | | | |
| 13. Highway Distance to Selected Cities | U | | | | | | | |

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| B. Economic | | | | | | |
| 1. Family Incomes | U | Distribution by Income for Counties, 1950, 60, 70--U. S. Census of Population (26x254) | | | | |
| 2. Household Incomes | U | Medians & % Change, By County, 1950, 60, 70—Ibid. (5x254) | | | | |
| 3. Per Capita Incomes | U | Avg. by County & Comparisons to State & National Avg., 1964-69, Sales Management (18x254) | | | | |
| 4. Effective Buying Incomes | U | Totals, Comparisons, & % Change, by County, Chamber of Commerce Region, State Planning Region, & State Avg., 1964-1969—Ibid. (26x254) | | | | |
| 5. Manufacturing & Total Employment | U | Totals, Comparisons, & % Change By County, Chamber of Commerce Region, State Planning Region, & State Avg., 1964 & 1970---T. E. C. (41x254) | | | | |
| 6. Bank, & Savings & Loans | U | City & County Deposits & Assets, Totals, Per Capita, & % Change—Federal Reserve, F.D.I.C., & Savings & Loan Directories (12x254) (18x458) | | | | |
| 7. Economic Indices, Employment, & Unemployment | U | Totals & % Changes, by County, 1964-70—T.E.C. (21x254) | | | | |
| 8. Manufacturing Plant Expansion | U | By County—Bureau of Business Research (13x254) | | | | |
| 9. Major Economic Sector Statistics | U | By County for Retail, Wholesale Manufacturing, Mining, Service, & Agriculture, 1963, 67, & 69—U.S. Census & Sales Management (175x254) | | | | |

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| | | | ④ FREQUENCY | ⑤ PERIOD OF RECORD | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| 10. Housing | U&C | Availability, Condition, & Avg. Cost, by County, U.S. Census of Population, 1970 (17x458) | | | |
| 11. Index of Employment Specialization & Employment Totals | U | By County--U.S. Census of Population, 1960 (54x254) | | | |
| 12. Labor Force Participation Rates | U | By Race, Sex & Age, for County--I.E.C. | | | |
| 13. Wage Rates | U | Major Economic Sectors by County--Ibid. (6x254) | | | |
| 14. Common Carriers (Trucks) | C | Service & Sample Shipping Times (52x458) | | | |
| 15. Ports | C | Distance to & Service of Nearest Deep Water Port (4x458) | | | |
| 16. Banking Policies | C | Information Indicating Ability & Interest to Serve Industry (13x458) | | | |
| 17. Major Manufacturer | C | Name & Employment of City's Largest Manufacturer (2x458) | | | |
| 18. Tool & Die Firms, & Business Form Firms | C | totals by SIC (7x458) | | | |

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| V. Socio-Economic Resources | | | | | |
| 1. <u>Dun & Bradstreet DMI System</u> | U | Business Establishments Address & Phone Listings, Year Started, Credit Ratings, Sales, Net Worth, Establishment Employees, SIC—Dun & Bradstreet (19,000 industries) | | | |
| 2. <u>Texas Directory of Manufacturers</u> | U | Manufacturing Plants Listed Alphabetically, by City, County & SIC, Home Office Listings, International Exporting Codes—Bureau of Business Research (12,000 industries) | | | |
| 3. <u>McClellan County Industry Survey</u> | U | Labor Supply & Needs, Training Programs Required, Union Activity, Raw Materials, Site Advantages & Disadvantages, Competition, Market, & Expansion—Baylor University (144 industries) | | | |
| 4. <u>Foreign Economic Trends Survey</u> | U | Foreign National reports converted to Dollar Figures—U. S. Dept. of Commerce | | | |
| 5. <u>Exporter's Encyclopedia & Fact File</u> | U | U.S. & Foreign Restrictions & Regulations for the International Exporter—Dun & Bradstreet | | | |
| 6. <u>Schedule B & FT 410</u> | U | U.S. Export Sales, by Country & 5-Digit SIC—U.S. Dept. of Commerce | | | |

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| | | | FORM | COLLECTION | | | | | |
| III. Biological | | | | | | | | | |
| A. Animal | | | | | | | | | |
| 1. Livestock Market News | CU | Includes livestock trading, meat trade, wool and mohair, future trading, range and feed lot sales, market comments and regional grain reports | P | W | 1965 | Present | Covers major livestock markets in Texas Reported by Federal and State Reporters. | | |
| 2. Poultry and Egg Market News | CU | Includes the latest market and price information on eggs, broilers, turkeys, hens, futures trading and national market summaries | P | twice weekly | 1951 | Present | Covers all major national markets | | |
| 3. Livestock Export Directory (English and Spanish) | CU | Covers major breeds of cattle, goats, horses, sheep and swine | P | A | 1967 | Present | Statewide | | |
| 4. Livestock Statistics | CU | Cooperative effort of TDA and USDA Texas Crop and Livestock reporting service. Includes production and prices on a county and statewide basis. | P | A | | | County and Statewide | | |
| 5. Poultry Statistics | CU | | P | A | | | County and Statewide | | |
| 6. Dairy Statistics | CU | | P | A | | | County and Statewide | | |
| | | | | | | | Information in Publication form started in 1968. Data for earlier years is available from the USDA's Statistical Reporting Service | | |

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| III. Biological B. Plant | 1. Rice Market News | CU Features milled rice prices, export news and rough rice information | P | W | 1951 | All national rice markets | |
| | 2. Pecan Market News | CU Contains pecan prices and market conditions | P | twice weekly during harvest season | 1951 | Markets of major pecan producing states as well as New York and Chicago shelled Lower Rio Grande Valley and Winter Garden Areas | |
| | 3. Fruit and Vegetable Market News | CU Contains prices and supply data | P | daily (during 1951 season) | | Dallas Ft. Worth Wholesale Flower Market | |
| | 4. Watermelon Market News | CU Contains shipping point data and price information | P | daily (during 1951 season) | | Dallas Wholesale Market | |
| | 5. Citrus Market News | CU Contains price and supply information | P | daily (during 1951 season) | | | |
| | 6. Ornamental Crop Market News | CU Contains supply data and price information | P | D | 1951 | | |
| | 7. Fruit and Vegetable Wholesale Terminal | CU Contains supply and price information | P | D | 1951 | | |
| | 8. Vegetable Statistics | Cooperative effort of TDA and USDA's Texas Crop and Livestock Reporting Service. Includes production and prices on a county and statewide basis. | | | | | |
| | 9. Fruit and Vegetable Statistics | | | | | | |
| | 10. Small Grain Statistics | | | | | | |
| | 11. Cotton Statistics | | | | | | |
| | 12. Field Crop Statistics | | | | | | |

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| | | | FORM | ④ FREQUENCY OF DATA STORAGE | | |
| III. Biological | | | | | | |
| C. Man's Activities | | | | | | |
| 1. Cash Receipts | CU | Presents estimates for all crops, livestock and government payments | P | A | | County and Statewide |
| 2. Prices Paid and Received by Farmers | CU | Details prices received by farmers on a month by month basis and prices paid by farmers for both commodities used in production and in family living | P | A | | Statewide |
| 3. Texas Floral and Nursery Directory | CU | | P | A | 1909 Present | Statewide |
| 4. Seed Law and Regulations | CU | Contains the Texas Seed Law and Regulations pertaining to the Texas Seed Law | P | P. (Approx. every 2 yrs.) | | Statewide |
| 5. Texas Seed Certification Standard | CU | Loose leaf book with supplementary sheets | A. (revisions made annually) | | | Statewide |
| 6. Sample Analysis of Economic Pesticides | CU | | P | A | 1948 Present | |
| 7. Seed Testing | CU | Procedure for sending, packaging, forwarding to laboratory, time required for test and testing fees | P | P. (Approx. every 2 yrs.) | | Statewide |

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| III. C. (continued) | | | | | | |
| | Laws | | | | | |
| | 8. Egg Law | | | | | |
| | 9. Vegetable and Citrus Laws | | | | | |
| | 10. Public Weighers Law | CU | Laws of ongoing concern are published as they are enacted and revised | P | | Statewide |
| | 11. Grain Warehouse Law | | | | | |
| | 12. Commodity Referendum Law | | | | | |
| | 13. Directory of Cooperatives | CU | Contains names, locations and addresses of agricultural cooperatives in Texas. | P | A | Statewide |
| | 14. Directories of Producers | | | | | |
| | Watermelon Shippers | | | | | |
| | Citrus Shippers | | | | | |
| | Peanut Shellers | | | | | |
| | Pecan Handlers | | | | | |
| | | | | P.(data revised as changes occur | | |
| | | | | | | |

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| Meteorological Climatological Weather Data | U | From National Climatic Center via TWDB - consists of wind, stability, etc., of Texas and border stations. | T & C | 52 61 | 60 | West Texas Statewide |
| Air Quality Particulate Gaseous | C & U | Ambient Air Sample Analysis of up to 33 pollutants for particulate 6 for gaseous with date and location of sample site. | T P | W W | 57 68 | Statewide with total of 425 stations. |
| Man's Activities Emissions Inventory | C & U | Catalog of significant air polluters in state includes name, location, type of process, amount of raw materials & products, number of stacks, type of pollutant and other operating data. | T | A | 68 | Statewide |
| Permits | C & U | Applications for permit to construct or modify facility. Process data and evaluation of impact are included in recommendation. | A | O | 70 | Statewide |
| Source Surveillance | C & U | Reports completed by field man on compliance with control standards and check of abatement equipment installed. | T P | 71 | 71 | Statewide |

IDENTIFICATION OF NATURAL RESOURCES DATA AND INFORMATION

QUESTIONNAIRE

| DATA CATEGORY / SUB-CATEGORY | ① DATA CLASSIFICATION | ② BRIEF NARRATIVE DESCRIPTION OF THIS DATA CLASSIFICATION | ③ TO BE COMPLETED ONLY FOR DATA WHICH IS COLLECTED BY YOUR AGENCY | | | |
|------------------------------|-----------------------|---|---|--------------------------------------|----------------------------|---|
| | | | FORM OF DATA STORAGE | ④ FREQUENCY (S) OF RECORD COLLECTION | ⑤ PERIOD OF RECORD FROM TO | ⑥ DESCRIPTION OF DATA COLLECTION COVERAGE |
| Stack Sampling | C & U | Lab analysis of exit gas from stack under investigation showing concentrations of main pollutants involved. | A | O | 70 | Statewide |
| Property Line Sampling | C & U | Upwind and downwind sample analysis taken at property line of plant under investigation. | A | O | 70 | Statewide |
| Legal Activities | C & U | Index of companies taken to court, reason for action, result. | A | O | 70 | Statewide |
| Transportation | U | From Highway Dept. Motor vehicle registration statistics, gasoline consumption, motor vehicle travel miles for cities & counties. | T & P | O | 70 | Statewide |
| Natural Gas | U | From railroad commission, natural gas usage by geographic areas. | T & P | O | 70 | Statewide |

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